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EASTERN ILLINOIS UNIVERSITY
GRADUATE CATALOG
1969 - 1971

EASTERN ILLINOIS UNIVERSITY BULLETIN

DECEMBER 1969



GRADUATE BULLETIN

ANNOUNCEMENTS FOR 1969-71 SESSIONS

CONTENTS

University Calendar	3
Buildings and Grounds	5
General Information	9
Degree Requirements	18
Description of Courses	27
Board of Governors	110
Administrative Officers	111
Council on Graduate Studies	111
Graduate Faculty	111
Index	117

UNIVERSITY CALENDAR

1969-71

WINTER QUARTER, 1969-70

Wednesday, December 3Registration
 Wednesday, December 3Last Day to Apply for Winter Quarter Graduation
 Thursday, December 4Classes Begin
 Friday, December 19 (7:00 p.m.)Christmas Vacation Begins
 Monday, January 5 (7:00 a.m.)Classes Resume
 Tuesday, February 10Constitution Examination
 Sunday, March 1Commencement
 Thursday, February 26Study Day
 Friday, Saturday, Monday, Tuesday, February 27, 28, March 2, 3Examinations
 Wednesday, March 4Quarter Closes

SPRING QUARTER, 1970

Wednesday, March 11Registration
 Wednesday, March 11Last Day to Apply for Spring Quarter Graduation
 Thursday, March 12Classes Begin
 Friday, March 27Good Friday
 Tuesday, April 14Constitution Examination
 Sunday, May 24Commencement
 Monday, Tuesday, Wednesday, Thursday, May 25, 26, 27, 28Examinations
 Friday, May 29Quarter Closes

SUMMER QUARTER, 1970

Monday, June 8Registration
 Tuesday, June 9Classes Begin
 Monday, June 22Graduate Registration
 Monday, June 22Last Day to Apply for Summer Quarter Graduation
 Tuesday, June 23Graduate Classes Begin
 Tuesday, July 14Constitution Examination
 Thursday, August 13Commencement
 Tuesday, Wednesday, Thursday, Friday, August 11, 12, 13, 14Examinations
 Monday, August 17Quarter Closes

FALL QUARTER, 1970

Saturday, September 5Graduate Registration
 Monday, September 7Registration and Parents Convocation
 Tuesday, September 8Registration
 Tuesday, September 8Last Day to Apply for Fall Quarter Graduation
 Wednesday, September 9Classes Begin
 Friday, October 9Constitution Examination
 Friday, October 16Last Date for Application for Certification
 Saturday, November 14Graduate Registration for Winter Quarter
 Wednesday, November 18Study Day
 Thursday, Friday, Monday, Tuesday, November 19, 20, 23, 24Examinations
 Saturday, November 21Commencement
 Wednesday, November 25Quarter Closes

WINTER QUARTER, 1970-71

Wednesday, December 2 Registration
 Wednesday, December 2 Last Day to Apply for Winter Quarter Graduation
 Thursday, December 3 Classes Begin
 Friday, December 18 (7:00 P.M.) Christmas Vacation Begins
 Monday, January 4 (8:00 A.M.) Classes Resume
 Friday, January 22 Constitution Examination
 Friday, January 29 Last Date for Application for Certification
 Saturday, February 20 Graduate Registration for Spring Quarter
 Thursday, February 25 Study Day
 Friday, Monday, Tuesday, Wednesday, February 26, March 1, 2, 3 Examinations
 Saturday, February 27 Commencement
 Thursday, March 4 Quarter Closes

SPRING QUARTER, 1971

Wednesday, March 10 Registration
 Wednesday, March 10 Last Day to Apply for Spring Quarter Graduation
 Thursday, March 11 Classes Begin
 Friday, April 9 Good Friday Vacation
 Friday, April 16 Constitution Examination
 Friday, April 23 Last Date for Application for Certification
 Saturday, May 22 Early Graduate Registration for Summer Quarter
 Monday, Tuesday, Wednesday, Thursday, May 24, 25, 26, 27 Examinations
 Sunday, May 23 Commencement
 Friday, May 28 Quarter Closes

SUMMER QUARTER, 1971

Monday, June 7 Undergraduate Registration
 Tuesday, June 8 Undergraduate Classes Begin
 Monday, June 21 Graduate Registration
 Monday, June 21 Last Day to Apply for Summer Quarter Graduation
 Tuesday, June 22 Graduate Classes Begin
 Friday, July 9 Constitution Examination
 Friday, July 16 Last Date for Application for Certification
 Tuesday, Wednesday, Thursday, Friday, August 10, 11, 12, 13 Examinations
 Thursday, August 12 Commencement
 Monday, August 16 Quarter Closes

EASTERN ILLINOIS UNIVERSITY**RATING**

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Council on Education and the American Association of Colleges for Teacher Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County Airport. The city has a population of 13,600.

HISTORY

The General Assembly of Illinois, by an act approved May 22, 1885, established the Eastern Illinois State Normal School.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

Courses leading to the Master of Science in Education degree were announced in 1951; the first master's degrees were conferred July 31, 1952. The master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

In 1962, the Teachers College Board approved the establishment of curricula leading to the Master of Arts and Master of Science degrees. The first Master of Arts degree was conferred in May, 1963.

In 1964, the Teachers College Board approved the establishment of curricula leading to the Certificate of Advanced Study, which was changed to the Specialist in Education degree in 1965.

In 1968, the Board of Governors (formerly Teachers College Board) approved the establishment of curricula leading to the degrees Master of Business Administration and Specialist in College Teaching (Mathematics).

BUILDINGS AND GROUNDS**THE CAMPUS**

The campus grounds cover an area of three hundred and sixteen acres.

BURGNER TEN ACRES

A plot of wooded land in Coles County was deeded to the University in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. The site is used for nature study.

ROCKY BRANCH AREA

Through the generosity of Nature Conservancy and an anonymous donor, a tract of 126 acres approximately 26 miles southeast of Charleston was given to the University early in 1967. The area is used mainly for study and research by the students and staff in the Division of Life Sciences.

LIVINGSTON C. LORD ADMINISTRATION BUILDING (OLD MAIN)

The main building houses administrative offices and classrooms for the Departments of Psychology and Mathematics. It is named for the University's first president. It was completed in 1899 as the University's first structure.

PEMBERTON HALL

This structure was enlarged in 1962 to accommodate 201 women. It was erected in 1909 as the University's first residence hall. It also houses the Textbook Library.

FRANCIS G. BLAIR HALL

This building is now occupied by the School of Business, the Audio-Visual Center, and the Data Processing Center. It is named for the first director of the training school.

STUDENT SERVICES BUILDING

This building was remodeled in 1968 and currently houses the offices of the Dean of Student Personnel Services, the Dean of Men, Dean of Women, Assistant Dean of Men, and the Assistant Dean of Women. It also houses the Office of Admissions, Central Stores, and Duplicating Services.

FLORENCE McAFEE WOMEN'S GYMNASIUM

Formerly Lantz Gymnasium, this building was renamed for the late Dr. McAfee, head of the women's physical education program from 1935 until her retirement in 1962. The building is used exclusively for women's physical education.

SCIENCE BUILDING

This building contains classrooms and laboratories for the Departments of Chemistry, Geography and Geology, and Physics. It was completed in 1939 and remodeled in 1964.

LIFE SCIENCE BUILDING

Housed in this building are the Departments of Botany and Zoology. Associated with the Life Science Building is a complex of greenhouses. The major wing of the building was constructed in 1963, with the Annex added the following year.

THE MARY J. BOOTH LIBRARY

The library is named for Dr. Mary J. Booth, librarian from 1904 to 1945. It was opened in 1950 and is located in the center of the campus. Construction of an addition was completed in 1968.

LINCOLN HALL, DOUGLAS HALL, AND STEVENSON TOWER

Lincoln and Douglas residence halls were opened in September, 1952. Recently completed is the Adlai E. Stevenson Memorial Tower addition which increased the capacity of the complex to approximately 750.

ROBERT G. BUZZARD LABORATORY SCHOOL

The campus laboratory school for kindergarten through grade nine was completed in 1958. It is named for the university's second president.

UNIVERSITY UNION

This building contains a cafeteria, the Panther Lair snack shop, a ballroom, lounges, recreation facilities, meeting rooms, and offices. It was completed in 1957. A substantial addition was completed in 1967.

FORD, McKINNEY, AND WELLER HALLS

These three residence halls house a total of 454 women. They are named for former members of the university faculty. The structures were completed in 1958.

UNIVERSITY APARTMENTS

Living facilities for married students are provided in 154 apartment units. They are located on Terrace Lane at the south edge of the campus.

FINE ARTS CENTER

This building houses the School of Music, the Department of Theatre Arts and the Department of Art. It contains a "little theatre," numerous practice and rehearsal rooms for music, and studios and laboratories.

ANDREWS HALL

This residence hall houses 480 women. It is named for a former faculty member, Dr. Franklyn Andrews, and was opened in 1964.

LAWSON HALL

Completed in 1967, Lawson Hall is a "mirror image" of the nine-story Andrews Hall. It was named for Dr. Elizabeth K. Lawson, Dean of Women from 1939 until her retirement in 1966.

CLINICAL SERVICES BUILDING

This structure houses the Health Service; Reading, Speech and Hearing Clinics; Counseling and Testing Center; and the Department of Speech Pathology and Audiology. It was opened in September, 1964.

BUZZARD HOUSE

The former home of Eastern's second president houses the Assistant Dean of Student Personnel Services and the Director of Financial Aids.

CHARLES H. COLEMAN CLASSROOM BUILDING

This building is named for Dr. Charles H. Coleman, eminent Lincoln scholar and long-time member of the Department of History. The building houses the Departments of Speech, Foreign Languages, English, History, Sociology-Anthropology, Economics, Political Science, and Philosophy.

BOOTH HOUSE

This building furnishes offices for the Civil Service Personnel Director, Director of Residence Hall Food Services, the Director of Housing, the Assistant Director of Housing, and the Housing Administrator. The building is a bequest from the late Miss Mary Josephine Booth.

THOMAS HALL

This residence hall was completed in 1963. It houses 438 men and is named for the late Professor S. E. Thomas, long a member of the social science faculty.

PHYSICAL PLANT SERVICES BUILDING

This building is located in the far northwest corner of the campus and houses shops for personnel responsible for maintenance and operation of the physical plant.

TAYLOR HALL

This residence hall for 590 men opened in the fall of 1966. It is named for the late Dr. Edson H. Taylor, long a member of the Mathematics Department.

CHARLES P. LANTZ HEALTH, PHYSICAL EDUCATION AND RECREATION BUILDING

Named for the late Dr. Charles P. Lantz, coach and athletic director for 41 years, the building opened in 1966. Features include gymnasium, swimming pool, field house, archery, rifle and pistol ranges, and classrooms.

APPLIED ARTS-EDUCATION CENTER

This building houses the School of Home Economics, the School of Industrial Arts and Technology, and the Faculty for Professional Education. It was completed in 1967.

GREGG TRIAD

The Gregg Triad was completed in 1966 as a dining hall to serve the occupants of Ford, McKinney, and Weller Halls. It is named for Mr. Raymond Gregg, Business Manager at the university from 1934 to 1963.

TELEPHONE AND SECURITY BUILDING

Offices of the Security staff and the equipment and personnel necessary for the operation of the university telephone system are housed in this building, completed in 1966.

GENERAL INFORMATION

POLICY ON NON-DISCRIMINATION

The University is committed to a policy of non-discrimination with respect to race, religion, and national origin in all facets of University life and administration.

DEGREES

The University offers on the fifth-year level the professional degree, Master of Science in Education (M. S. in Ed.), and the specialized degrees, Master of Arts (M. A.), Master of Science (M. S.), and Master of Business Administration (M. B. A.). The Specialist in Education (Ed. S.) degree is offered on the sixth-year level.

ADMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university; and * the student must:

1. Take either the Graduate Record Examination (GRE) or the Advanced Test, Graduate Study in Business (ATGSB). Either examination may be scheduled through the University Testing Service or the Graduate School;
2. have an undergraduate cumulative GPA of 2.25;
3. *or* lacking 2.25, a minimum of 2.5 in the major for the bachelor's degree;
4. *or* demonstrated ability as evidenced by earning a minimum score on the GRE or the ATGSB.
5. An unclassified or "non-degree" graduate student continues to be admitted to take graduate courses under the present regulations and should such student apply for degree status, admission to candidacy shall be determined by his scholastic record to date, scores on the GRE or ATGSB or on both the record and the GRE or ATGSB scores. The latter to be determined by the department admitting the student to candidacy.

Admission to courses is not to be interpreted as admission to candidacy for a degree.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least thirty calendar days before the first registration for graduate courses. Students who have attended Eastern Illinois University before must file an application for readmission at least ten calendar days prior to the official

* The following requirements must be met by those persons applying for admission on or after September 1, 1970.

registration date for the quarter in which they wish to enroll. Application blanks may be secured from the office of the Dean of the Graduate School.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses.

Admission of Foreign Students. In addition to the regular application materials, overseas students are required to take the Test of English as a Foreign Language (TOEFL) Examination; the results of the examination must accompany the application blank.

ADVISER

Each student who wishes to become a candidate for a degree is assigned to an adviser. It is the responsibility of the adviser to counsel with the student in his choice of courses, to sponsor his application for admission to candidacy, to approve his paper or study, and to arrange his examinations. Other faculty members may be appointed to share any of these responsibilities.

RESIDENCE REQUIREMENT AND TRANSFER CREDIT

At least thirty-six quarter hours of credit toward the master's degree must be earned in residence courses at Eastern Illinois University; the remaining credit may be earned in extension and/or transfer courses. One quarter in the regular year or two summer sessions must be spent in full-time residence.

For the specialist degree, at least forty-eight quarter hours of the total of ninety-six must be earned in residence credit at Eastern Illinois University. One quarter in the regular year or two summer sessions must be spent in full-time residence.

Residence credit is given for evening and Saturday courses on the campus. No credit is allowed for correspondence courses.

MAXIMUM LOAD

A graduate student is restricted to sixteen quarter hours during a fall, winter or spring quarter and twelve quarter hours during the summer term.

The maximum amount of credit that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

GRADUATE COURSES IN THE SENIOR YEAR

During the final quarter of residence in undergraduate work, a student may take graduate courses with credit which represents the difference between that required to complete the undergraduate degree and the maximum allowed a graduate student in that term.

TIME LIMIT

The program for the master's degree must be completed within six consecutive years; that for the specialist degree must be completed within four years after admission to candidacy. Extension of time may be granted only when a delay has been caused by circumstances beyond the control of the student.

CREDIT

The unit of measure is the quarter hour, representing one hour a week of prepared work for one quarter. It is equivalent to two-thirds of a semester hour.

A year's work is equivalent to 48 quarter hours (32 semester hours) of prepared work.

A statement of the amount of credit is included in the description of each course.

GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor but passing	1
F	Failure	0
E	Incomplete	—
W	Withdrew—passing	—
WF	Withdrew—failing	—
AU	Audit	—

The grade of E is given only when, because of illness or some other important reason, a student's normal progress in a course is delayed. Such student must secure an instructor-approved plan which will allow completion of work no later than the end of the next quarter in which the course is offered and in which he is in residence. If the plan is accomplished, the instructor submits a change-of-grade form indicating the appropriate grade. If the student does not secure an instructor-approved plan or if the plan is not accomplished within the specified time limit, the instructor will submit a change-of-grade form indicating an F grade or, in special circumstances, he may grant a time extension. The time restriction does not apply to the formal paper required for a master's degree.

AUDITING OF COURSES

Provisions for auditing courses may be made under certain circumstances.

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of registration from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes.

WITHDRAWAL FROM A COURSE OR FROM THE UNIVERSITY

1. Within the first seven calendar days of a quarter (excluding registration day), a student may withdraw from a course (or from the University) without a grade.
2. After the first seven calendar days, but prior to the 30th¹ calendar day of the quarter, a student may withdraw from a course (or from the University) with a grade of W.
3. A student who withdraws on or after the 30th¹ calendar day of the quarter will receive a grade of W if he is passing the course or a grade of WF if he is failing the course. However, no student may initiate withdrawal from a course or from the University within the period beginning fourteen calendar days prior to the first final examination and the end of the quarter.
4. If mitigating circumstances exist the Dean, Student Academic Services, may upon the recommendation of the Dean, Student Personnel Services, and/or the University Physician, advise the recording of a grade of W instead of a grade of WF.
5. If a student discontinues attendance in all classes without withdrawing officially grades of F are recorded in all courses.
6. The grade of WF carries the same grade-point evaluation as the grade of F.

FEES

QUARTERLY FEES*

All fees are subject to change at the end of any year by action of the Board of Governors of State Colleges and Universities. Fees for quarters listed below must be paid on or before registration day of each quarter. (A student who takes any combination of ten-week and eight-week courses will be regarded as a full-time quarter student for purposes of determining his fees.)

For Residents of Illinois—Graduates

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	
Registration Fee	\$ 65.00
Service Fee	51.75*
Total	\$116.75

Part-Time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

¹ If the 30th calendar day of the quarter falls on a Saturday, Sunday, or within a stated vacation period (except the Christmas break), the next school day is used. In the case of the Christmas break, the vacation days are not included.

* Student Activity Fee—\$12; Bond Revenue Building Fee—\$19.00; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4.

<i>Fee</i> (Per Quarter Hour)	
Registration Fee	\$5.50
Service	2.85**
Total	\$8.35

For Out-of-State Students

Full-Time Student: A student registered for nine or more quarter hours of work shall pay the following fees:

<i>Fee</i>	
Registration Fee	\$200.00
Service Fee	51.75*
Total	\$251.75

Part-time Student: A student registered for less than nine quarter hours of work, unless enrolled in the extension program, shall pay the following fees:

<i>Fee</i> (Per Quarter Hour)	
Registration Fee	\$16.50
Service Fee	2.85**
Total	\$19.35

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state registration fee unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered residents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age of 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

SUMMER GRADUATE TERM FEES

Fees described below are payable on or before registration day for the eight-week summer graduate term:

For Residents of Illinois

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

Registration Fee	\$49.00
Service Fee	38.75***
Total	\$87.75

* Student Activity Fee—\$12; Bond Revenue Building Fee—\$19.00; Textbook Rental Fee—\$10; Health Insurance Fee—\$6.75; Grants-in-Aid Fee—\$4.

** Bond Revenue Building Fee—\$1.60, Textbook Rental Fee—\$.90, Grants-in-Aid Fee—\$.35.

*** Student Activity Fee—\$9.00, Bond Revenue Building Fee—\$14.25, Textbook Rental Fee—\$7.50, Health Insurance Fee—\$5, Grants-in-Aid Fee—\$3.

A part-time student may purchase a student activity ticket for the regular price of \$12. He is not permitted to purchase health and accident insurance.

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

Registration Fee	\$6.15 per quarter hour
Service Fee	3.10 per quarter hour**

Total\$9.25 per quarter hour

For Out-of-State Students (See earlier definition of out-of-state student)

Full-Time Student: A graduate student taking eight quarter hours or more shall pay the following fees:

Registration Fee	\$150.00
Service Fee	38.75*

Total\$188.75

Part-Time Student: A graduate student taking less than eight quarter hours of work shall pay the following fees:

Registration Fee	\$18.75 per quarter hour
Service Fee	3.10 per quarter hour**

Total\$21.85 per quarter hour

EXTENSION FEES

Extension fees are \$10.00 per quarter hour with an additional charge of \$3.00 per course for textbook rental. When textbooks cannot be supplied by the University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

MISCELLANEOUS FEES AND CHARGES

Late Registration Fee. An extra fee of \$15 is charged to a student who registers after the registration dates shown in the catalog or who fails to pay all fees on registration day. This fee is non-refundable. No registrations are accepted after the sixth calendar day following the first day of classes.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office. The fee of \$15 includes the cost of cap and gown rental. The last day for applying for graduation for a particular quarter is registration day of that quarter.

OFFICIAL RECEIPTS

Official receipts for fees must be preserved by the student during the quarter involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

* Student Activity Fee—\$9.00, Bond Revenue Building Fee—\$14.25, Textbook Rental Fee—\$7.50, Health Insurance Fee—\$5, Grants-in-Aid Fee—\$3.
** Bond Revenue Building Fee—\$1.80, Textbook Rental Fee—\$.95 Grants-in-Aid Fee—\$.35.

REFUNDS

WITHDRAWAL

Regular. If a student withdraws from the University during a quarter or the summer graduate term and if the initiation and completion of the withdrawal is made through the Dean of Men or Dean of Women during the first seven calendar days (excluding registration day) of the quarter, the Registration Fee will be refunded. There will be no refund of the Service Fee. If the withdrawal is initiated at a later date, there is no refund of any fees. The official receipt must accompany the request for refund.

Military Duty. A student called for active duty or induction into the Armed Forces prior to the 36th calendar day following the first day of classes (excluding the Christmas break) will be given a refund of all fees except the Service Fee.

PRE-REGISTRATION

Non-Enrollment. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear for classes, all fees will be refunded if notice has been given in writing to the Assistant Dean, Registration and Advisement, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the Registration Fee will be refunded.

Change in Load. Upon request a student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded the difference between his Registration Fee and the course fee for those courses constituting his part-time load; there will be no refund of the Service Fee.

PLACEMENT OFFICE

Registration or re-registration with the Placement Office is prerequisite to graduation for all degree candidates. The Placement Office seeks to help competent graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information needed by them in considering applicants. It also maintains a follow-up service through a program of visits and by means of reports from teachers themselves as well as from supervising officials of schools in which graduates of Eastern Illinois University have been placed. Placement services are free to students who qualify.

Graduate students may register for placement if they have attended Eastern Illinois University for one quarter and have earned sixteen quarter hours of graduate credit toward a master's degree. This includes graduate extension courses offered off-campus. Alumni whose institutional records are clear may register by bringing their credentials up-to-date and paying a fee of \$2.00.

SCHOLARSHIPS

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

GRADUATE ASSISTANTSHIPS AND FELLOWSHIPS

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry a stipend of \$270 per month and appointments are for the academic year or summer sessions. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses.

Fellowships are awarded each academic year by the various academic departments offering graduate degrees. They carry a stipend of \$155 per month. To be eligible the applicant must have earned an overall 2.5 undergraduate grade point average and been admitted to take graduate courses.

The registration fee and out-of-state fees, if applicable, are waived for holders of assistantships and fellowships.

Applications for the assistantships and fellowships should be submitted by March 1 of the year of appointment. Further information may be obtained by writing to the Dean of the Graduate School or the major department.

HOUSING ACCOMMODATIONS

The University housing office maintains lists of approved houses for women and men. There are eight residence halls for women, Pemberton, Ford, McKinney, Weller, Andrews, Lawson, Lincoln and Douglas Halls. Thomas, Taylor and Stevenson Towers are currently available for men. Apartments for married students are also available.

LIBRARY

Booth Library. The Booth Library is the general library of the University and contains a book stock of over 200,000 cataloged volumes besides government documents, microtexts, maps, and pamphlets chosen to support the educational effort of the University. A sizeable addition to the original building was opened in 1968. All books in the library are on open shelves except those that are rare.

In the central area of the first floor are located the Circulation Department and the General Card Catalog. The Reference Department also is located near the center of the first floor. Here the students find the answers to many of their problems. There are periodicals, indexes and abstracts available as well as a collection of reference books. Special facilities such as seminar, group study, conference, and faculty study rooms and equipment for reading microtext materials are also provided on this floor. The current issues and the bound volumes of periodicals are kept on the second floor on open stacks, arranged alphabetically by title.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Service. Over 5,000 recordings for leisure-time enjoyment of music are available in the Music Room. A publisher's exhibit of textbooks for elementary and secondary schools are also provided.

Laboratory School Library. This library, a part of the general University library system, houses a collection of materials suitable for the elementary

and junior high school levels. Besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in the collection and with its method of operation.

TEXTBOOK LIBRARY

Basic textbooks for University courses are rented to students through the Textbook Library. The book rent is paid at the time of registration in consideration of this service. Laboratory manuals, special notebooks, and other materials not classified as basic textbooks must be purchased by the student as needed.

UNIVERSITY UNION

The University Union, financed by student fees and other donations, houses a cafeteria, snack bar, game rooms, ballroom, lounges, kitchen and offices for the Student Senate.

The Union, governed by the University Union Board composed of students and faculty, plans a variety of activities for the student body. Included are weekly dances, receptions, recitals, billiards, bridge and chess contests and instruction.

The Union staff also gives assistance to student organizations in the planning and scheduling of their activities.

DEGREE REQUIREMENTS

MASTER OF SCIENCE IN EDUCATION DEGREE

AIM

It is the purpose of this program of graduate study at Eastern Illinois University to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in public schools.

FIELDS

The Master of Science in Education degree may be earned in the following fields:

Art
Audio-Visual Education
Biological Sciences
Business Education
Educational Administration
Elementary Education
English
Foreign Languages
Geography
Guidance and Counseling
History
Home Economics
Industrial Arts
Mathematics
Music
Physical Education—Men
Physical Education—Women
Physical Sciences
Social Sciences
Speech
Speech Pathology and Audiology

ADMISSION TO CANDIDACY

While responsibility for admission to candidacy for the Master of Science in Education degree rests with the department offering the degree, the University has established certain basic requirements that must be met. These are:

1. If the bachelor's degree was earned at another institution, the applicant must submit evidence that he has had substantial equivalents of the courses in education and student teaching required for the degree, B.S. in Ed., in Eastern Illinois University. Usually, one who

holds a regular teacher's certificate valid in Illinois can meet this requirement. Deficiencies must be made up through additional undergraduate courses. (The requirement of the teacher's certificate is waived for those students majoring in personnel work in higher education.)

2. The Graduate Record Examination must be taken before an application for admission to candidacy for a graduate degree will be considered. The Examination may be scheduled through the University Testing Services or the Graduate School.
3. The student must petition for admission to candidacy and the proposed program of courses must total at least forty-eight quarter hours. Petition forms may be obtained from the Dean of the Graduate School.
4. The candidate must have completed at least twelve quarter hours of courses at Eastern Illinois University, with grades that average 3.0, and with grades in all graduate courses taken, including those which may not have been included in the program, averaging at least 2.5. (The requirement of the completion of twelve quarter hours is waived for students possessing a 3.0 or better undergraduate grade point average.)
5. The candidate must not have completed more than thirty-six quarter hours of his program at the time of filing an application for admission to candidacy.
6. At least thirty-six quarter hours of the proposed program must be in courses numbered 500 and above.
7. When a candidate's program is approved by his department, a copy is placed on file in the Graduate School office. Once on file, the major department is expected to approve changes in the program only for very good reasons. The Graduate School must be notified if any such changes in the program are made.
8. Failure to secure admission to candidacy prior to beginning the final twelve quarter hours of a proposed program for the master's degree is considered equivalent to rejection of candidacy.

The department requirements for admission to candidacy may be obtained by communicating with the head of that department.

PROGRAM OF STUDIES

The courses for the degree, Master of Science in Education, must total at least forty-eight quarter hours, chosen in accordance with a plan intended to be consistent with the statement of the purpose of graduate study at Eastern Illinois University. At least thirty-six quarter hours of work included in the student's program must be in courses numbered 500 or above.

It is assumed that the personal and professional competence sought by the candidate has at least three contributing factors: basic educational theory, specialized professional knowledge and experiences, and continued

cultural and intellectual development independent of the field of concentration; the plan, therefore, requires that the student's courses be identified with three groups defined as follows:

GROUP I (Minimum: 12 quarter hours)

Basic Courses In Education

It is the purpose of the courses of this group to present aspects of fundamental educational theory. Three courses must be chosen from the following:

Education 550. Principles of Curriculum Development

Education 551. Social Foundations of Education

Education 552. Understanding the Individual

Education 553. Philosophy of Education

Education 554. History of Educational Thought

It is recommended that no more than one of these courses be taken in any quarter or summer term.

A student may petition for a proficiency examination in any of these courses; successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

GROUP II (Minimum: 24 quarter hours)

Area Of Concentration

The courses of this group are intended to constitute an area of specialization. They may be taken in a single department or in more than one department; the unifying principle is their significance to the teaching field or the specialized professional work of the candidate. An important consideration in admission to candidacy for the degree, Master of Science in Education, is the unity displayed in the selection of the courses of this group.

GROUP III (No minimum; maximum: 12 quarter hours)

The courses of this group are intended to implement the assumption that continued cultural and intellectual development independent of the field of concentration may contribute significantly to professional and personal competence. It is intended that these courses shall provide new intellectual experiences, consequently, they should be chosen in fields that are new to the student. The courses acceptable in Group III are planned specifically for the purpose stated above. It is intended that they assume intellectual maturity but little or no previous introduction to the field of study. Normally a student is eligible to take a Group III course if he has taken twelve quarter hours or less in that field.

The following courses are currently acceptable in Group III: Anthropology 552; Art 550, 551; Classics 550, 551 (Literature in Translation); Economics 550; Geography 550, 551, 552; History 550, 551; Industrial Arts 550; Management 550; Mathematics 550; Music 551; Physical Education Men 550; Physical Education Women 551; Zoology 550, 551.

THE PAPER

Although the preparation of a formal paper or thesis is not required of candidates for the degree, Master of Science in Education, the student

may elect to submit one. Candidates electing to prepare a thesis may register, and receive four quarter hours of credit toward graduation with the credit included as part of Group II. The student's adviser may act as adviser for the thesis or another faculty member may, with the consent of the Dean of the Graduate School, be designated to take this responsibility. It is recommended that the paper be read by at least two faculty members other than the adviser before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to elect to write a thesis.

It is required that the original and first carbon copy of the thesis, appropriately bound, be deposited in Booth Library. An abstract is also required.

Candidates who elect not to prepare a thesis take a four quarter hour course to bring their total hours for the program to forty-eight.

THE EXAMINATION

An examination is required of all candidates for the degree, Master of Science in Education, during the final term of work. The purposes of the examination are to test the achievement of the student with respect to the purpose of his program of studies and to promote the integration of his studies.

The examination is given by a committee appointed by the adviser. It may be written, or oral, or both written and oral. The passing of the examination must be certified by the adviser at least one week before graduation.

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

AIM

It is the purpose of this program to provide intensive study designed to develop advanced scholarship in a particular discipline.

FIELDS

The following departments have been authorized to offer the Master of Arts and Master of Science degrees:

Master of Arts

Economics
English
French
Geography
History
Mathematics
Music
Political Science
Sociology
Spanish
Speech

Master of Science

Botany
Chemistry
Library Science
Physical Education
Physics
Speech Pathology and Audiology
Zoology

ADMISSION TO CANDIDACY

While responsibility for admission to candidacy for the Master of Arts and Master of Science degrees rests with the department offering the degree, the University has established certain basic requirements that must be met. These are:

1. Adequate undergraduate preparation in the major field; deficiencies, as determined by the major department, must be made up without credit toward the degree.
2. The Graduate Record Examination must be taken before an application for admission to candidacy for a graduate degree will be considered. The GRE may be scheduled through the University Testing Services or the Graduate School.
3. The student must petition for admission to candidacy and the proposed program of courses must total at least forty-eight quarter hours. Petition forms may be obtained from the Dean of the Graduate School.
4. The candidate must have completed at least one course in his major field and his grade in that course and all other courses listed on his application for admission must average 3.0 (B). (The requirement of the completion of one course is waived for students possessing a 3.0 or better undergraduate grade point average.)
5. The candidate must not have completed more than thirty-six quarter hours of his program at the time of filing an application for admission to candidacy.
6. At least thirty-six quarter hours of the proposed program must be in courses numbered 500 and above.
7. When a candidate's program is approved by his department, a copy is placed on file in the Graduate School office. Once on file, the major department is expected to approve changes in the program only for very good reasons. The Graduate School must be notified if any such changes in the program are made.
8. Failure to secure admission to candidacy prior to beginning the final twelve quarter hours of a proposed program for the master's degree is considered equivalent to rejection of candidacy.

The department requirements for admission to candidacy may be obtained by communicating with the head of that department.

PROGRAM OF STUDIES

The courses for the degrees, Master of Arts and Master of Science, must total at least forty-eight quarter hours. Since the degree is highly specialized, the candidate is expected to pursue work in a single discipline or major in a field and minor in another closely related one.

MAJOR AND MINOR

A student's program of courses may be taken entirely in a single field or he may choose a major of thirty-two to thirty-six quarter hours and a

related minor of sixteen to twelve quarter hours. The major and minor must be in single disciplines, not in "areas;" for example, history would be an acceptable major but "social science" would not. A major can be given only by a department which has received approval. A minor may be taken by a student in a discipline in which a major has not been developed. The major and minor program selected must total at least forty-eight quarter hours.

THE PAPER

Four or eight quarter hours of the major shall be reserved for a thesis. An exception to this requirement is made in departments where independent research would be required but the formality of a thesis would be impractical. The student's adviser may act as adviser for the thesis or another faculty member may, with the consent of the department, be designated to take this responsibility.

It is required that the original and first carbon copy of the thesis, appropriately bound, be deposited in Booth Library. An abstract of the thesis is also required.

THE EXAMINATION

Each candidate for the Master of Arts and Master of Science degrees must stand a comprehensive oral or written examination or both. This is given by his department and covers his major field. The purpose of the examination is to test his scholarly attainments in his discipline. The department must remand a student to further work if he fails to perform satisfactorily in this examination.

LANGUAGE REQUIREMENT

The various departments offering the degrees have the option of requiring a foreign language.

MASTER OF BUSINESS ADMINISTRATION DEGREE

AIM

The purpose of this program is to develop professional managers and executives to serve the needs of business and government, to prepare graduates for teaching in junior colleges, and to furnish basic graduate training for those desirous of continuing their graduate work.

ADMISSION TO CANDIDACY

The requirements for admission to candidacy for the degree Master of Business Administration concerning deficiencies, quarter hours, grades and thesis are the same as those required for the Master of Arts or Master of Science degrees with the following exceptions:

1. Instead of requiring the Graduate Record Examination as a prerequisite for admission to candidacy, the School of Business substitutes the Admission Test for Graduate Study in Business (ATGSB).

The ATGSB may be scheduled through the University Testing Services or the Graduate School.

2. The MBA degree is often pursued by students preparing for a future in industry but who did not major in the field of business as undergraduates. Non-business majors normally need two academic years in which to complete the MBA degree; business majors can usually complete all degree requirements in one academic year or forty-eight quarter hours of work.

The School of Business requirements for admission to candidacy may be obtained by communicating with the Director of Graduate Study.

GRADUATION REQUIREMENTS FOR THE MASTER'S DEGREES

The master's degree is conferred upon:

1. The completion of the approved program of studies of forty-eight quarter hours with grades that average B (3.0) or higher and with not more than eight quarter hours of courses with grades below B.
2. Certification not later than one week before graduation that, if applicable, an acceptable paper or research project has been completed, approved and deposited in Booth Library and, if required, the abstract of the paper is deposited in the Graduate School office. Certification forms may be secured in the Graduate School office.
3. Satisfactory performance in a comprehensive examination and a certificate attesting to that satisfactory performance is filed in the Graduate School office one week before graduation.
4. Passing an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois. This requirement may be waived if the candidate passed the examination as a requirement for an undergraduate degree at one of the colleges or universities in Illinois. The examination must have been passed within ten years of applying for the graduate degree.
5. Applying for graduation at the Records Office and paying the \$15.00 graduation fee at the Cashier's window not later than registration day of the quarter in which the candidate expects to graduate.
6. The candidate must register with the Placement Bureau or revise previous registration.

All requirements are subject to the rules governing residence, transfer of credit, and extension credit.

GRADUATION HONORS

A master's degree candidate who earns a 3.9 grade point average for the forty-eight quarter hours of his program receives the honors designation "With Distinction." Such honors will be entered on the candidate's diploma.

SPECIALIST DEGREE*

FIELD

Eastern Illinois University has been authorized to offer the Specialist in Education Degree (Ed. S.).

ADMISSION TO CANDIDACY

Admission to candidacy for the specialist degree should come ordinarily at the completion of forty-eight quarter hours of the program. Admission to candidacy must come at or before the completion of sixty-four quarter hours and is subject to the following additional conditions:

1. The student must complete the requirements ordinarily fulfilled by earning the master's degree. Formal receiving of the master's degree is left to the discretion of the student.
2. The Graduate Record Examination must be taken before an application for admission to candidacy for a graduate degree will be considered. The Examination may be scheduled through the University Testing Services or the Graduate School.
3. The student must petition for admission to candidacy. The petition must be sponsored by the student's adviser and must contain a proposed program of studies totaling at least ninety-six quarter hours selected in accordance with the Program of Studies for the specialist degree.
4. Admission to candidacy will result from:
 - a. Approval by the major department of the student's program of studies.
 - b. Passing a comprehensive examination, either written or oral or both.
 - c. An evaluation of the student's record to date. If a master's degree was taken independently of the specialist program, the courses taken for the degree will be evaluated and there is no assurance that all credit hours will automatically count toward the specialist degree.
 - d. Approval by the major department's screening committee. By means of interviews, the department offering the specialist degree must approve the candidate.
5. When a candidate's program is approved by his department, a copy is placed on file in the Graduate School office. Once on file, the major department is expected to approve changes in the program only for very good reasons. The Graduate School must be notified if any such changes in the program are made.

The department requirements for admission to candidacy may be obtained by communicating with the head of that department.

* Specialist degrees are often called "Sixth Year" degrees for they normally require a year's graduate work beyond the master's level.

SPECIALIST IN EDUCATION DEGREE**AIM**

It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel specializing in such fields as educational administration.

FIELDS

Eastern Illinois University has been authorized to offer the Specialist in Education degree (Ed. S.) in educational administration.

PROGRAM OF STUDIES

The courses proposed in the student's program for the Specialist in Education degree must total ninety-six quarter hours. Ordinarily, in the first forty-eight quarter hours the student will complete the requirements for a master's degree although it is not required that the master's degree be completed within the first half of the total program.

The final forty-eight quarter hours of the Ed.S. are specifically planned to satisfy certification and accreditation requirements and are divided into two parts—the major field and supporting academic minor.

FINAL EXAMINATION

The candidate for the Specialist in Education degree must stand a final comprehensive examination which may be written or oral or both written and oral. This examination is given by a committee appointed by the adviser. The passing of this examination must be certified by the adviser at least one week before completion of the requirements for the Ed.S.

DESCRIPTION OF COURSES**NUMBERING OF COURSES**

Courses numbered 450-499 may be taken by juniors, seniors, and graduate students.

Courses numbered 500-549 may be taken by seniors whose cumulative grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School.

Courses numbered 550 and above may be taken only by graduate students.

COLLEGE OF LETTERS AND SCIENCE**ANTHROPOLOGY****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****454. Theories of Culture and Social Change. (4 q. hrs.)**

An investigation of anthropological theories and models which have contributed to an understanding of culture and social change throughout the world. Particular emphasis is placed upon theories of urbanization and acculturation.

Prerequisite: Anthropology 273.

470. Field Techniques in Archaeology. (6 q. hrs.)

The techniques, methods, and procedures of archaeology will be discussed and practiced in actual working conditions on an archaeological excavation.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 471.

471. Laboratory Techniques and Problems in Archaeology. (6 q. hrs.)

Laboratory work in the field; studying, evaluating, and writing final reports on the associated fieldwork.

Prerequisite: Anthropology 273. To be taken concurrently with Anthropology 470.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

552. Cultural Anthropology. (4 q. hrs.)

An introduction to the scientific study of man and his culture. Cross cultural comparison of the major social institutions.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

ART**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****465. The Visual Arts in the Elementary and Junior High School.** (4 q. hrs.)

Our cultural heritage in visual arts for teachers; approaches to fostering appreciation of this heritage.

Prerequisite: Art 244. Not open to students whose major is in art.

469. Studies in Art History and Criticism. (4 q. hrs.)

Seminar studies in painting, sculpture and architecture.

Prerequisite: Permission of the instructor.

475. The Sources and Methods of Art History. (4 q. hrs.)

A study of archaeological and documentary sources relative to the writing of art history. An examination of pertinent literature and the practice of library research involving the systematic correlation of factual information.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

476. The Art of the Ancient Near East. (4 q. hrs.)

A study of the art of the Tigris-Euphrates Valley cultures from about 3500 to 500 B. C. Emphasis is put on the artistic achievements of the Sumerians, Babylonians, Hittites, Assyrians, and Persians.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

477. Art of Ancient Egypt. (4 q. hrs.)

A study of the evolution of architectural monuments and their attendant art from the Predynastic era to the Ptolemaic period.

Prerequisite: Twelve quarter hours in art history courses numbered 300 or higher.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Materials for Designing I. (4 q. hrs.)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

520. Painting Problems I. (4 q. hrs.)

Techniques and media used by painters in development of different styles of painting, with opportunity for experience in working in each according to individual choice.

Prerequisite: Three undergraduate courses in painting.

550. Contemporary Trends in Visual Arts. (4 q. hrs.)

Role and evaluation of visual arts in contemporary living.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Great Artists. (4 q. hrs.)

A cross-section of art history presented by the study of great artists.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Contemporary Printmaking. (4 q. hrs.)

A study of styles and techniques of contemporary printmakers.

Prerequisite: Two courses in undergraduate printmaking or permission of the instructor.

560. Materials for Designing II. (4 q. hrs.)

Advanced study of organization of form employing a variety of materials.

561. Advanced Drawing. (4 q. hrs.)

Development of personal expression in drawing and marking systems.

Prerequisite: Three courses in undergraduate drawing or permission of the instructor.

562. Watercolor. (4 q. hrs.)

Advanced study in various watercolor media.

Prerequisite: Three courses in undergraduate painting.

570. Painting Problems II. (4 q. hrs.)

Independent study in painting.

Prerequisite: Art 520.

571. Painting Problems III. (4 q. hrs.)

Emphasis is placed upon the construction and development of form.

Prerequisite: Art 570.

580. Research in Art Education. (4 q. hrs.)

Familiarization with research in art education, the study of methods and structure of research, and the initiation of research projects.

Restricted to art majors only.

591. Problems in Art Education. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools and junior college.

595. Thesis. (4 q. hrs.)

BOTANY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****453. Plant Microtechnique.** (4 q. hrs.)

The techniques of preparing permanent microscopic slides of plant material and an understanding of the part played by staining in producing superior teaching and research material.

Prerequisite: Botany 456 recommended.

454. Intermediate Plant Physiology. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the biochemical processes that result in the growth and development of plants and the application of this knowledge in solving plant growth problems.

Prerequisite: Botany 254 and one year of chemistry.

456. Plant Anatomy. (4 q. hrs.)

The origin and development of the tissues of leaves, stems, and roots of seed plants; the common ecological variations and hereditary types; wood anatomy and identification.

Prerequisite: Botany 230.

459. Systematic Botany. (4 q. hrs.)

A study of the common flowering plant families of Illinois and current trends in plant classification and plant analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 102.

461. Plant Ecology. (4 q. hrs.)

A study of the major plant formations of North America with emphasis on the factors which influence the development of local communities. Week-end and local field trips are part of the course.

Prerequisite: Botany 102 and two advanced courses in botany or related fields. Botany 254 and 459 are recommended.

499. Seminar. (2 q. hrs.)

Reports and discussion of selected topics in botany.

Prerequisite: Five courses in botany.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Plant Geography. (4 q. hrs.)

Study of the dominant plants of the biomes of North America and the major factors determining both their general distribution and local variations

thereof. Consultation of original sources and discussion of both current and historically important research in the discipline.

Prerequisite: Botany 461.

530. Phycology. (4 q. hrs.)

A comparative morphological and physiological survey of the major groups of algae, including both fresh-water and marine forms.

Prerequisite: Botany 229.

532. Bryology. (4 q. hrs.)

A study of mosses and liverworts emphasizing their taxonomy, morphology, physiology, and ecology. Field work including identification, collections and herbarium methods plus research techniques are an important part of the work.

Prerequisite: Botany 230.

535. Advanced Bacteriology. (4 q. hrs.)

A systematic study of the important bacteria associated with health and sanitation of man; including work on infection, immunity, and serological procedures.

Prerequisite: Botany 335; Chemistry 234, 243, 244, or permission of instructor.

536. The Lower Fungi. (4 q. hrs.)

A comparative morphological, taxonomic, and ecological study of the major groups of Phycomycetes and related fungi. Emphasis is given to individual work in the collection, culturing, and identification of representative groups.

Prerequisites: Botany 229; Botany 335 is recommended.

537. The Higher Fungi. (4 q. hrs.)

A comparative morphological, taxonomic, and ecological study of the major groups of Ascomycetes and Basidiomycetes. Emphasis is given to individual work in the collection, culturing, and identification of representative groups.

Prerequisites: Botany 229; Botany 335 is recommended.

538. Plant Pathology. (4 q. hrs.)

The causes and controls of plant diseases; considerations of representative plant diseases incited by bacteria, fungi, nematodes, and viruses.

Prerequisite: Botany 229.

540. Paleobotany. (4 q. hrs.)

A study of plant evolution through a consideration of the structure, phylogeny, ecology and geological distribution of fossil plants. Procedure for the collecting, identifying, and preparing for study of plant fossils are included.

Prerequisites: Botany 229 and 230; Geology 243 is recommended.

545. Ethnobotany. (4 q. hrs.)

A study of the relationships between man and his ambient vegetation. Attention is given to the interrelations of primitive man and plants. Field work and a research paper are an important part of the course.

Prerequisites: Botany 101 or permission of instructor.

547. Advanced Plant Physiology—Inorganic Nutrition. (4 q. hrs.)

A study of the physical and chemical nature of soils; absorption, translocation, and function of the essential mineral elements; and mineral element deficiency diseases.

Prerequisites: Botany 454 and Chemistry 243 or 346.

548. Advanced Plant Physiology—Metabolism. (4 q. hrs.)

A study of the metabolic processes involved in the growth and development of plants. Topics considered include respiration, photosynthesis, carbohydrate metabolism, and organic translocation.

Prerequisites: Botany 454 and Chemistry 243 or 346.

560. Cytogenetics. (4 q. hrs.)

The study of cells with particular emphasis on the structure, function and chemistry of chromosomes; the evolution and variation of karyotypes; and the structure and function of other cell organelles.

Prerequisite: Botany 350.

561. Ecological Methods. (4 q. hrs.)

Vegetation and soil analyses, microenvironmental measurements and physiological procedures used in ecological studies.

Prerequisite: Botany 461 or equivalent.

569. Advanced Taxonomy. (4 q. hrs.)

The study of recent developments in plant taxonomy with particular emphasis on paleobotany, biogeography, cytogenetics, chemical and ecological data to determine the evolutionary development of species.

Prerequisite: Botany 459 or permission of instructor.

575, 576 577, 578. Advanced Botany. (4 q. hrs. for each course.)

Advanced work in some special field of botany. The student chooses the area in which he wishes to study, subject to the approval of his adviser.

Prerequisite: At least a minor in botany or its equivalent and the instructor's permission.

595. Thesis. (4 q. hrs.) Any quarter.**CHEMISTRY****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****461 (361). Modern Inorganic Chemistry.** (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. The

laboratory work consists of the preparation of some representative compounds.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 491, 492, 493 or simultaneous registration therein.

470. Instrumental Methods in Chemistry. (4 q. hrs.)

The principles involved in using various instruments and the techniques required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, etc.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 243 and 330.

481. Qualitative Organic Analysis. (4 q. hrs.)

Eight to ten organic compounds and one or two bimolecular mixtures are identified by chemical and physical tests. Class work centers around interrelationships of organic families and how these are used to identify a compound.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 245 or simultaneous registration therein.

485. Chemistry of Natural Products. (4 q. hrs.)

A study of the principles and techniques employed in research in natural project chemistry and biologically related field, including the isolation, purification, identification and synthesis of physiologically active natural products.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Chemistry 234 or 330; 245 or 244 with permission of the instructor and department head.

491, 492, 493. Physical Chemistry. (4 q. hrs. for each course.)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electrochemistry, quantum theory and chemical kinetics.

491 has four classes only; 492 and 493 have three lectures and one 3-hour laboratory per week.

Prerequisite: Chemistry 243, 330 or simultaneous registration therein or 234. Mathematics 235, 236 or simultaneous registration therein. To be taken in sequence.

494. Nuclear Chemistry. (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Two classes and two 2-hour laboratory periods per week.

Prerequisite: Five terms of chemistry including 234 and/or 461, or permission of the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and

the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Seminar. (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 330 and 244, and permission of the head of the department.

501. History of Chemistry. (4 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

512. Theoretical Inorganic Chemistry I. (4 q. hrs.)

A study of topics selected to provide a firm background in the theory of inorganic chemistry. Included are periodic trends, modern theories of chemical bonding, structure and bonding in ionic crystals, thermodynamics of inorganic chemistry, and ligand-field theory of coordination compounds.

Prerequisite: Chemistry 461, 493.

513. Theoretical Inorganic Chemistry II. (4 q. hrs.)

Additional topics of inorganic chemical phenomena not covered in Chemistry 512. Study includes such subjects as acid-base theories, non-aqueous solvents, oxidation-reduction phenomena, and inorganic reaction mechanisms.

Prerequisite: Chemistry 461, 493.

520. Chemical Thermodynamics. (4 q. hrs.)

A study of the laws governing the passage of energy from one chemical system to another, the transformation of energy from one form to another, and the utilization of energy for useful work; together with the application of these laws to the change of matter from one molecular species to another.

Prerequisite: Chemistry 493.

523. Quantum Chemistry. (4 q. hrs.)

A study of the structure of atoms and molecules as explained by quantum theory. Applications to questions of chemical interest are emphasized.

Prerequisite: Chemistry 493.

528. Chemical Kinetics. (4 q. hrs.)

A study of the rates and mechanisms of chemical reactions and those factors influencing the rate process.

Prerequisite: Chemistry 520 or permission of instructor.

530. Spectrometric Chemical Analysis. (4 q. hrs.)

A study of the theory and quantum principles of IR, UV, and NMR spectroscopy, including spectrometric identification of chemical compounds with emphasis on organic structure.

Prerequisite: Chemistry 244, 493; Chemistry 470 is desirable.

540 (480). Organic Mechanisms. (4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry.

Prerequisite: Chemistry 234, 244.

543. Special Topics in Organic Chemistry. (4 q. hrs.)

A study of topics not ordinarily covered in the basic introductory organic chemistry courses.

Prerequisite: Chemistry 245; Chemistry 493 strongly recommended.

546. Biochemistry. (4 q. hrs.)

A study of the chemistry of biological materials, their isolation from tissues and the characterization of their structures and functions. Emphasis is placed on the metabolism of carbohydrates, lipids, proteins, and nucleic acids.

Two classes and two 2-hour laboratory periods per week.

Prerequisites: Chemistry 330 (or 234), 244 (284) and 493, or permission of the head of the department.

556 (450, 451). Research in Chemistry.

(May be taken one, two, or three times for 4, 8, or 12 q. hrs.)

A problem is selected in the area of the student's major interest after consultation with the department head and the instructor. The methods used in solving scientific problems are developed through the use of literature, laboratory and consultations.

Prerequisite: Permission of the head of the department.

595. Thesis. (4 q. hrs.)

ECONOMICS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Comparative Economic Systems. (4 q. hrs.)

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 256 or permission of the instructor.

454. History of Economic Thought. (4 q. hrs.)

The ancient world; scholasticism, mercantilism; the physiocrats; Adam Smith and classical economics; Marx; Veblen; Keynes.

Prerequisite: Economics 256.

460. Intermediate Economic Analysis. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 256.

461. Statistics and Research Techniques in the Behavioral Sciences. (4 q. hrs.)

Programmed as Social Science 461.

462. Economic Stability and Growth. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 256.

463. Mathematical Economics. (4 q. hrs.)

The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework.

Prerequisites: Mathematics 135 and Economics 460, or permission of the instructor.

465. Economics of Underdeveloped Areas. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

Prerequisite: Economics 256 or permission of the instructor.

467. International Economic Problems. (4 q. hrs.)

A study of current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism; and related issues.

Prerequisite: Economics 320 or permission of the instructor.

468. Economic Planning. (4 q. hrs.)

A study of the deliberate and systematic development planning by public authorities in market economies as well as command economies.

Prerequisite: Economics 465 and/or permission of the instructor.

470. Business Cycles. (4 q. hrs.)

An analysis of fluctuations in economic activity, including characteristics of cycles, their explanation in terms of income and employment theory, development of leading business cycle theories, and efforts to forecast and control business cycles.

Prerequisite: Economics 256.

475. Government and Labor. (4 q. hrs.)

Public policy with respect to labor problems and industrial relations. The role of the legislative, judicial, and executive branches of state and federal governments relating to labor relations.

Prerequisite: Economics 357 or permission of the instructor.

477. Economics of Collective Bargaining. (4 q. hrs.)

Analysis and study of the role and nature of collective bargaining. Examination of economics and social impact and implications of collective bargaining, alternative approaches to conflict resolutions, and evaluation of proposals for improvement.

Prerequisite: Economics 357 or permission of the instructor.

480. Money and Banking. (4 q. hrs.)

An intensive study of money and banking and their importance in our economy; government monetary and banking policy and its significance to economic well-being.

Prerequisite: Economics 256.

485. Public Finance. (4 q. hrs.)

A study of taxation, government spending, public debt and their importance to economic welfare.

Prerequisite: Economics 256 or permission of the instructor.

490. Latin American Economic Development. (4 q. hrs.)

A survey of the economic conditions and problems in Latin America, both as a whole, and in specific countries.

Prerequisite: Economics 256 or permission of the instructor.

495. Independent Study. (4 q. hrs.)

Provides opportunity for the student to do independent study in the field of economics. Designed for the individual needs of the student at either the undergraduate or graduate level.

Prerequisite: Economics 256.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Seminar in International Economics. (4 q. hrs.)

A study of the pure theory of international trade and finance.

Prerequisite: Economics 320 and/or permission of the instructor.

550. The Soviet Economy. (4 q. hrs.)

Emphasis will be given to the current and historical economic factors which have given rise to the phenomenal development of the Soviet economy.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Seminar in Public Control of Industry. (4 q. hrs.)

Discussions and individual research in selected problems of economic policy arising from the inter-relations of government and business with special attention to be given to problems of maintaining competitive enterprise.

Prerequisite: Economics 356 and/or permission of the instructor.

557. Problems in Labor Economics. (4 q. hrs.)

A critical economic analysis of contemporary and English and American wage theory, of hours of work and unemployment, and of issues in collective

bargaining. The various aspects of public policy affecting labor will be emphasized.

Prerequisite: Economics 357 and/or permission of the instructor.

558. The Economics of Manpower Resources. (4 q. hrs.)

A study of the population as a resource base, including measurement and description of the labor force and its characteristics. Attention will be focused on dynamics of the labor force, problems of utilization of labor, and issues of national manpower policy.

Prerequisite: Economics 357 and/or permission of the instructor.

560. Advanced Economic Theory: Microeconomics. (4 q. hrs.)

A development of theories of value and distribution. Detailed analysis of the reactions of consuming units (households) and producing units (firms). Determination through the market of prices, outputs, incomes, and resource allocation.

Prerequisite: Economics 460 and/or permission of the instructor.

562. Advanced Economic Analysis: Macroeconomic Theory. (4 q. hrs.)

An in depth study of national income analysis: incorporating pre-Keynesian, Keynesian, and post-Keynesian economic theory.

Prerequisite: Economics 462 or proficiency in macroeconomic analysis.

564. Seminar in Recent History of Economic Thought. (4 q. hrs.)

A study to acquaint students with the best minds that exerted themselves in economics as a body of scientifically developed propositions since 1930, such as: Keynes, Robertson, Mitchell, Schumpeter, Myrdal, Galbraith, Commons, Hicks, Liberman, and J. Robinson.

Prerequisite: Economics 454 and/or permission of the instructor.

565. Seminar in Economic Development. (4 q. hrs.)

A theoretical, historical and statistical treatment of economic development.

Prerequisite: Economics 465 and/or permission of the instructor.

580. Seminar in Monetary Theory. (4 q. hrs.)

A study of topics relating to the supply of and the demand for money and the functioning of monetary controls relative to national economic goals.

Prerequisite: Economics 480 and/or permission of the instructor.

581. Seminar in Financial Institutions. (4 q. hrs.)

A study of the functioning of major private and public financial institutions.

Prerequisite: Economics 480 and/or permission of the instructor.

585. Seminar in Public Finance. (4 q. hrs.)

This course is designed to present a number of specific areas of public finance in such fields as budgets, fiscal policy, and public debt at the federal,

state, and local level. The emphasis will be on fiscal theory and intergovernmental fiscal relations.

Prerequisite: Economics 485 and/or permission of the instructor.

595. Thesis. (4 q. hrs.)

ENGLISH

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453. Sixteenth and Seventeenth Century Prose. (4 q. hrs.)

Development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan, and Milton together with the times that influenced and made it.

454. The Transcendental Movement. (4 q. hrs.)

A study of the New England Transcendental movement. Major emphasis on the writings of Emerson and Thoreau.

455. The Age of Swift. (4 q. hrs.)

A study of the prose and poetry of the neo-classical period centering around Jonathan Swift.

456. The Age of Johnson. (4 q. hrs.)

A study of major eighteenth century authors centering around Samuel Johnson.

457. Nineteenth Century English Prose. (4 q. hrs.)

Major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson.

459. Methods of Teaching Children's Literature. (4 q. hrs.)

A course for elementary and English majors, designed to increase their knowledge of children's literature and to suggest methods for teaching literature in grades one through six.

465. Middle English Literature. (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

470. English Poetry. (4 q. hrs.)

English poetry from 1550 to 1700, exclusive of Milton.

471. Poetry of the Romantic Period. (4 q. hrs.)

Precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelly, Keats.

472. Poetry of the Victorian Period. (4 q. hrs.)

Tennyson and Browning, etc.

475. Milton. (4 q. hrs.)

A study of the life, prose, and poetry of John Milton, and his relationship to the literary trends of his century.

480. Chaucer. (4 q. hrs.)

Canterbury Tales; the London dialect out of which modern English grew; the life of the times.

481. Chaucer. (4 q. hrs.)

A study of *Troilus and Criseyde* and such other works as *The House of Fame*, *The Parliament of Fowls* and *The Legend of Good Women*; a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, predestination and free will.

490. Elizabethan Drama. (4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Literary Criticism. (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

510. Studies in Medieval Literature. (4 q. hrs.)

A study in depth of representative non-Chaucerian literature of the English Middle Ages. The course may concern itself with genres—the drama, the romance, the ballad—or with figures: the Gawain poet, William Langland, John Gower, John Lydgate, Robert Henryson.

520. Studies in Renaissance Poetry. (4 q. hrs.)

A study of a single major poet—such as Spenser or Sidney—or a group of poets, in relation to the dominant ideals and attitudes of the Renaissance.

525. Studies in Jacobean and Caroline Drama. (4 q. hrs.)

Focus upon the works of major British dramatists (excluding Shakespeare) from 1603 to the closing of the theaters in 1642.

526. Studies in Restoration and Eighteenth Century Drama. (4 q. hrs.)

Focus upon the works of major British dramatists from Dryden to Sheridan.

535. English Fiction, from Jane Austen to Thomas Hardy. (4 q. hrs.)

This course surveys the historical development of the novel in England from Jane Austen to Thomas Hardy, but the emphasis will be on one or two different novelists each quarter.

540. Studies in American Poetry. (4 q. hrs.)

A course devoted to the study of some movement or genre in American poetry; for example, nineteenth century poetic theory and practice, trends in American poetry from the Puritans to the present, lyric poetry in the American tradition, or narrative poetry in America.

541. Studies in American Prose. (4 q. hrs.)

A course devoted to the study of some movement in American prose, such as the romance and the novel in nineteenth century fiction; the short story; the rise of realism; the nineteenth century novel; theory and practice; the novelle; biography, autobiography, and the essay; the local color movement. Only one movement to be treated in any given term, and the movement and authors studied may change from term to term.

545. Descriptive Linguistics. (4 q. hrs.)

A survey of descriptive linguistics from the 1930's to the present, with some training in the various disciplines arising therefrom; e.g., structural, transformational, and other grammars; techniques in teaching English as a foreign language; techniques in related fields.

Prerequisite: Permission of the instructor.

560. Old English. (4 q. hrs.)

Old English grammar and selected readings from the literature.

Prerequisite: Permission of the instructor.

561. Beowulf. (4 q. hrs.)

A study of the Old English classic in the original language with emphasis on such aspects as the social, legendary, and historical backgrounds of the poem; its structure and texture; and the various critical problems involved in its study.

Prerequisite: English 560 or the permission of the instructor.

565. Studies in Chaucer. (4 q. hrs.)

Focus upon selected works of Chaucer and, possibly, of his contemporaries.

Prerequisite: English 480 or 481 or the equivalent.

575. Studies in Shakespeare. (4 q. hrs.)

The content of the course will vary from year to year in order to provide opportunity for investigation of intellectual patterns and socio-political aspects of the works in addition to their distinctively literary values.

Prerequisites: English 336, 337, 338 or their equivalent, or by permission of the instructor.

577. Studies in Seventeenth Century Prose and Poetry. (4 q. hrs.)

Studies in single or related authors from Donne to Dryden, excluding Milton and the drama.

579. Studies in Eighteenth Century Prose and Poetry. (4 q. hrs.)

Focus upon Pope and the Neo-classical ideal; the Johnson circle; the Scottish nature poets.

582. Studies in Romantic Poetry. (4 q. hrs.)

A study of one poet (Burns, Wordsworth, Coleridge, Byron, Shelley, or Keats). The writings and life of the poet will be studied against the background of Romanticism.

585. Studies in Later Nineteenth Century Prose and Poetry. (4 q. hrs.)

A detailed study of some of the basic and most typical thematic preoccupation of the nineteenth century as revealed in its literature. Although primary emphasis will be on English literature, some study of relevant American and European literature will be included. Since emphasis is upon themes rather than literary genres, the course will include studies of particular poems, novels, and non-fictional prose.

590. Colonial American Literature. (4 q. hrs.)

A course devoted to pre-revolutionary American Literature, with special attention to the writings of the seventeenth century New England Puritans.

592. Studies in Twentieth Century Fiction. (4 q. hrs.)

An intensive study of the major figures of the period in England and America: Conrad, Lawrence, and Joyce; Hemingway and Faulkner. Focus will be on one or two writers, varying from quarter to quarter.

594. Studies in Twentieth Century Poetry. (4 q. hrs.)

Focus on key figures, e.g., Eliot, Yeats, Robinson, Frost, together with individual critical analyses of minor poets.

595. Thesis. (4 q. hrs.)**FOREIGN LANGUAGES****FRENCH****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****456. French Drama of the 17th Century.** (4 q. hrs.)**457. French Drama of the 18th and 19th Centuries.** (4 q. hrs.)**458. French Poetry.** (4 q. hrs.)**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. French Novel I: Before Balzac. (4 q. hrs.)

A study of selected novels of Mme. de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

511 (454). French Novel II: Balzac to Proust. (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

512. French Novel III: Proust to the Present. (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

515. Advanced Phonetics and Diction. (4 q. hrs.)

Theory and practice.

516. Syntax and Stylistics. (4 q. hrs.)

A study of French syntax and stylistics; intensive practice in writing.

517. Contemporary French Civilization. (4 q. hrs.)

A study of the contemporary scene in France.

560. Classroom and Laboratory Techniques for Teaching French.

(4 q. hrs.)

Particularly for students preparing for junior college or college teaching; adaptable to experienced teachers at other levels.

565. French Literature of the Renaissance. (4 q. hrs.)

Rabelais, DuBellay and the doctrine of the Pleiade, Ronsard and Montaigne.

567. French Classicism I. (4 q. hrs.)

Representative authors of the first half of the 17th Century.

568. French Classicism II. (4 q. hrs.)

Representative authors of the second half of the 17th Century.

575. The Age of Enlightenment. (4 q. hrs.)

Chosen authors of the 18th Century.

578. French Realism and Naturalism. (4 q. hrs.)

Representative works of the French realists and naturalists of the 19th Century.

580. Contemporary French Literature. (4 q. hrs.)

Contemporary authors such as Sartre, Anouilh, Beckett, and Robbe-Grillet.

585. Seminar in French Literature. (4 q. hrs.)

Work and discussion of various topics chosen according to students' needs.

595. Thesis. (4 q. hrs.)

GERMAN**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****453. German Literature to 1700.** (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. German Literature Since 1700. (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. Advanced Composition and Syntax. (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of German literature.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. History of German Civilization. (4 q. hrs.)**511. Modern German Drama.** (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

512. Goethe. (4 q. hrs.)**572. German Lyric Poetry from 1880 to the Present.** (4 q. hrs.)

Discussion and lectures on the development of modern concepts in the genre as reflected in the works of George, Rilke, Trakl, and others.

574. The German Drama of the Nineteenth Century. (4 q. hrs.)

A study of the background and development of the theater in Germany. Reading and discussion of the works of Buchner, Kleist, Hebbel, Hauptmann, and others.

580. Seminar in German Literature. (4 q. hrs.)

The study and discussion of various topics as chosen according to need.
Prerequisite: 16 quarter hours of 500 level courses or permission of the department head.

595. Thesis. (4 q. hrs.)**LATIN****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****450. Tacitus, Germania and Agricola; Selections from Annals and Histories.** (4 q. hrs.)**451. Selections from Catullus and Martial.** (4 q. hrs.)**452. Roman Comedy. The Menaechmi and Captives of Plautus; The Phormio and Andria of Terence.** (4 q. hrs.)**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Suetonius: The Life of Augustus Caesar. (4 q. hrs.)

Translation of a primary historical document pertaining to the rise of the Roman Empire; critical evaluation of Suetonius as a biographer and historian.

511. Petronius, Cena Trimalchionis and Seneca, Apocolocyntosis. (4 q. hrs.)

Examples of Roman satire in the first century A.D.; introduction to the picaresque novel.

512. Apuleius, The Story of Cupid and Psyche. (4 q. hrs.)

Translation of a major excerpt from Apuleius' Metamorphosis; introduction to the Eastern cults prevalent in Rome.

595. Thesis. (4 q. hrs.)**SPANISH****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****456. The Short Story in Spanish America.** (4 q. hrs.)

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors.

457. Modern Poetry of Spanish America. (4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present.

458. Modern Novel of Spanish America. (4 q. hrs.)**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and

the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Poetry of Spain. (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

511. Selected Modern Drama of Spain. (4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

512. Modern Novels of Spain. (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

530. Spanish Bibliography. (4 q. hrs.)

Methods of location and acquisition of material available for research projects in the Hispanic field.

555. History of the Spanish Language. (4 q. hrs.)

Study of the development of the language from Vulgar Latin to Modern Spanish.

560. Classroom and Laboratory Techniques for College Spanish. (4 q. hrs.)

A course particularly relevant to students preparing to teach at the junior college or college level.

561. Cervantes. (4 q. hrs.)

Study of the novel *Don Quixote de la Mancha* by Minguel de Cervantes Saavedra.

562. Theater of the Golden Age. (4 q. hrs.)

Study of the creation of Spanish National theater in the Golden Age and of selected works of the most prominent dramatists of the period.

564. Generation of 1898. (4 q. hrs.)

Study of representative writers of the Generation of 1898.

570. Spanish American Drama. (4 q. hrs.)

Study of Spanish American dramatic literature from its origin to the present.

571. Spanish American Poetry. (4 q. hrs.)

Study of major movements in 20th Century Spanish American poetry and their critical interpretation and analysis.

572. Spanish American Novel: Middle America. (4 q. hrs.)

Study of the different movements and themes in the novels of Mexico, Central America and the Antilles, with particular emphasis on the novel after 1910.

573. Spanish American Novel: South America. (4 q. hrs.)

Study of different themes and movements in South American novel, with particular emphasis on the 20th Century.

580. Seminar of Spanish Literature. (4 q. hrs.)

Special topic and research course devoted to selected problems, genres, literary movements and major writers in Spanish literature.

582. Seminar of Spanish American Literature. (4 q. hrs.)

Special topic and research course devoted to selected problems, genres, literary movements, and major writers in the Spanish American literature.

595. Thesis. (4 q. hrs.)

CLASSICS

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Greek Literature in English Translation. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Greek literature from Homer to Demosthenes.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Latin Literature in English Translation. (4 q. hrs.)

A survey course devoted to the reading and discussion of the masterpieces of classical Latin literature from Plautus to Suetonius.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

GEOGRAPHY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. North America. (4 q. hrs.)

An advanced study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas which are treated in their regional settings.

451. Geography of South America. (4 q. hrs.)

Physical features, resources, peoples, land utilization, and economic development of the countries of South America.

452. Geography of Europe. (4 q. hrs.)

A study of the countries of Europe and the geographic basis for their stages of development and commercial and political relations; emphasis upon current problems.

453. Geography of Asia. (4 q. hrs.)

Physical and cultural geography as a background for understanding the current problems in southwestern, southern and eastern Asia.

455. Geography of the U.S.S.R. (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

456. The North American Midwest. (4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. The geography of Illinois is given special attention.

457. Geography of the Pacific. (4 q. hrs.)

A regional study of the Pacific. The regions of study include Australia-New Zealand, Micronesia, Melanesia, Polynesia, Indonesia and Phillippines. Development and interpretation of physical, political, economic and social regions in the Pacific.

458. Geography of Africa. (4 q. hrs.)

A regional study of Africa. Development and interpretation of physical, political, economic and social regions in Africa.

470. Historical Geography of the United States. (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

471. Political Geography. (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of current "hot spots" and the fundamentals of national strength.

480. Advanced Cartography. (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Prerequisite: Geography 380.

486. Geography of Soils. (4 q. hrs.)

An advanced course with emphasis on interrelationships of soil with other features of the physical and cultural environment. Special emphasis given to United States soils. Introduction to selected soils research in Illinois. Short field trips with independent work.

Prerequisite: Geography 286 or permission of instructor.

490, 491, 492. Independent Study. (4 q. hrs. for each course.)

Provides opportunity for the student to do independent study. Designed

for the individual needs of the student at the graduate or undergraduate level.

With permission of department head and approval of Dean, Letters and Science, these courses may be taken for less than 4 q. hrs. credit.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Philosophy and Literature of Geography. (4 q. hrs.)

Acquaints students in geography with the materials available for study and research in the field. Basic philosophies in geography analyzed.

511. Techniques in Geographic Research. (4 q. hrs.)

An introduction to and application of selected techniques valuable in geographic research. Particular emphasis is accorded to statistical methods, bibliographic research, and interview methods.

Prerequisite: Permission of the instructor.

513. Landform Regions of the United States. (4 q. hrs.)

An areal approach to the study of landform regions of the conterminous states. Various systems of landform classification evaluated.

530. Advanced Historical Geography. (4 q. hrs.)

Selected studies of changes in the geographical bases of man's use of the land from pre-Columbian times to the present in North America will be the core of this course.

Open only to graduate students and seniors who have taken Geography 470, or have the permission of the instructor.

531. Advanced Political Geography. (4 q. hrs.)

Study of the role of geographic elements in the development of political regions of all levels. Special emphasis devoted to the power structure of the world today.

Open only to graduate students.

550. Geography in World Affairs. (4 q. hrs.)

Working bonds between man and the environment; emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics and their geographic foundations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. A Geography of Man. (4 q. hrs.)

Designed to give the student a better understanding of the role of

geography in human affairs. Special attention given to the literature of the field and recent developments in geography.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

552. Earth Interpretations. (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are interrelated to each other and to man.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Seminar in Physical Geography. (4 q. hrs.)

Selected topics in weather, climate, landforms, and ocean geography.

Prerequisite: Geography 142 or the equivalent.

562. Seminar in Earth Resources. (4 q. hrs.)

A course developing, in some detail, aspects of soil, water, vegetation and minerals as earth resources.

Prerequisite: Permission of the instructor.

563. Seminar in Regional Geography. (4 q. hrs.)

Intensive study of special regions of the world. The regions to be determined by the areas of specialization of the students.

Prerequisite: Permission of the instructor.

570. Seminar in Population and Settlement. (4 q. hrs.)

Analysis of the ways in which man and his culture have come to be variously distributed over the surface of the earth.

571. Seminar in Economic Geography. (Offered on demand.) (4 q. hrs.)

A course devoted to selected topics in economic geography.

574. Seminar in Area Planning. (4 q. hrs.)

The study of geographic factors as applied to urban, community, and regional planning. Special emphasis on local planning problems.

Prerequisite: Permission of instructor.

590. Seminar in Educational Geography. (4 q. hrs.)

The place of geography among the disciplines at all levels of instruction from elementary school through junior college. A written report of significant research on some phase of the discipline.

595. Thesis. (4 q. hrs.)

HISTORY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

453, 454. Constitutional History of England. (4 q. hrs. for each course.)

A study of the English constitution to the time of Henry VII. Emphasis on the development of political institutions essential to western democracy, special emphasis on the development of the common law, the

court system, the conflicts between king and parliament, and changing character of the British constitution.

460. Recent United States History, 1900-1930. (4 q. hrs.)

An intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's and the background to the Great Depression.

461. Recent United States History, Since 1930. (4 q. hrs.)

An intensive study of the Great Depression, the New Deal, Isolationism, the U.S. and the Second World War, the Cold War, the Truman era, and the Eisenhower Years.

462. Social and Intellectual History of the Russian Revolution, 1825-1917. (4 q. hrs.)

History of ideological, social, political, and economic forces which led to the Soviet Revolution of 1917; Decembrists, Radicals, Populism, and Marxism in Russia.

463. Social and Intellectual History of the Russian Revolution, 1917 to Present. (4 q. hrs.)

February and October Revolution, War Communism, New Economic Policy, Collectivization and Industrialization, Party Congresses, Formation of the USSR, Dictatorship; Lenin, Stalin, Khrushchev.

464. Problems in Latin-American History. (4 q. hrs.)

A systematic, analytic and interpretive examination of major problems of Latin-American history. Beginning with the principal aspects of the three hundred to four hundred years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

465. Latin America and the United States. (4 q. hrs.)

An examination of the history of the relationships between Latin America and the United States from independence to the present day. The economic, social and intellectual factors which underlie diplomatic intercourse are analyzed.

466. History of American Frontier, The Colonial Period, 1492-1783. (4 q. hrs.)

A study of the discovery, settlement and westward push of population in the area now included in the United States, with emphasis on the effect of the frontier on the institutions and the people of America.

467. History of the American Frontier: The Trans-Appalachian Frontier, 1783-1850. (4 q. hrs.)

A study of the westward push of Americans into the Mississippi Valley, the growth of new states, the West in the War of 1812, and the role of the frontier west in the growth of sectionalism in the United States prior to the Civil War.

468. History of The American Frontier: The Western Frontier. (4 q. hrs.)

A study of the growth of the Trans-Mississippi West from the earliest Indian and Spanish influences through the period of American expansion and acquisition, and the growth of the West to prominence in American history to 1890.

469. Constitutional History of the United States to 1865. (4 q. hrs.)

English backgrounds; the colonial governments; the Declaration of Independence; the Articles of Confederation; the early state constitutions; the making of the Constitution; the first Supreme Court, the Marshall Court, the Taney Court.

470. Constitutional History of the United States Since 1800. (4 q. hrs.)

The Reconstruction decisions; the Court and big business; the Court and imperialism; the Progressive Era. The Court and freedom of speech; the Court and civil rights, The New Deal.

473. History of United States Immigration. (4 q. hrs.)

The causes of European migration, the colonial melting pot, the Old Immigration, Nativism, the New Immigration, the ghetto and its institutions, Americanization, restriction, cultural pluralism, the international ramifications of immigration.

474. Diplomatic History of the United States, 1776-1898. (4 q. hrs.)

The origins of American foreign policy; the American Revolution; the Napoleonic Wars; the expansion movements, the Civil War; the awakening of Imperialism.

475. Diplomatic History of the United States, 1898-1933. (4 q. hrs.)

The new Manifest Destiny; the Spanish War; the Age of Roosevelt; Dollar Diplomacy; the New Diplomacy; World War I; the Peace of Versailles; the retreat from responsibility.

476. The American Colonies. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

477. The American Revolution and Confederation. (4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

480. Diplomatic History of the United States, 1933-Present. (4 q. hrs.)

The isolationist thirties; the origins of World War II; the wartime conferences; the origins of the cold war; the emerging nations; the Sino-Soviet split; Truman, Dulles, Kennedy, Johnson.

484. Selected Topics in Byzantine, Islamic, and Persian History. (4 q. hrs.)

Emphasis upon periods when these civilizations exerted strong influences: Sassanid Persia and Byzantium, Byzantium and Umayyad Islam, Abbasid Islam and the New Persian Renaissance, Spanish Islam, Turks and

Mongols, Ottomans to 1571, Safavid Persia to 1629. Attention to art and religion.

485. Europe in the Eighteenth Century. (4 q. hrs.)

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

486. The World in the Twentieth Century I. (4 q. hrs.)

The First World War, the Soviet Union and Communism, Nazi Germany, the Second World War, the decline of colonialism and emerging nationalism in Asia and Africa, the cold war and world problems in a nuclear age. Emphasis is placed upon an understanding of contemporary events and their antecedents.

487. Labor History of the United States, 1607-1900. (4 q. hrs.)

An examination of American labor from Colonial times to 1900; categories of labor (slave, indentured servant, wage); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political, and intellectual institutions and movements to the American laborer.

488. Labor History of the United States, 1900 to the Present. (4 q. hrs.)

An examination of American labor from 1900 to the present; circumstances of labor (immigrant, Negro, urban, white-collar, agrarian); an analysis of the types of labor performed (commercial, agricultural, extractive, industrial) and their effects on the worker; and an explanation of the relationship of the major economic, social, political and intellectual institutions and movements to the American laborer.

489. The French Revolution. (4 q. hrs.)

The Old Regime, Estates-General and National Assembly; Republic, Patterns of Revolution.

490. Europe in the 19th Century. (4 q. hrs.)

Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.

491. History of Germany from 1815-1918. (4 q. hrs.)

Political, social and cultural development of 19th century Germany. Emphasis on the rise of nationalism and Liberalism, 1848 Revolutions, emergence of the German Reich under Bismarck, causes of World War I.

492. Germany Since 1919. (4 q. hrs.)

Political, social, economic development of the Weimar Republic. Decline of the Republic, roots and rise of National-Socialism, Hitler's foreign policy, World War II, collapse of Third Reich, Postwar Germany.

494. The History of Racism in the U.S. (4 q. hrs.)

A study of the origin and development of racist ideology in the United States, including attitudes toward the Negro, Indians, Chinese, Japanese, Mexican-Americans, Jews and other minority groups as well as the concept of Anglo-Saxon superiority.

495. Social and Intellectual History of the United States in the Colonial Period. (4 q. hrs.)

The transfer of culture from Europe to the English Colonies. The development of traits and ideas that are characteristic of the United States. The development of religious, scientific, educational, and political theories that influence the United States.

496. Social and Intellectual History of the United States in the 19th Century. (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

497. Eastern Europe from World War I to the Present. (4 q. hrs.)

The emergence of Poland, Czechoslovakia, Yugoslavia, Albania and changes in Rumania and Bulgaria. Development between wars. World War II and the formation of the communist regimes in that area. Soviet hegemony and the national conflicts. Nationalism versus Communism.

499. Social and Intellectual History of the United States in the Twentieth Century. (4 q. hrs.)

The development of ideas and way of life in the United States during the twentieth century with emphasis on the changes in American life and thought brought about by the United States participation in two world wars.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

525. Historical Directions Toward Urban Life. (4 q. hrs.)

A seminar in the history of urbanization in sundry parts of the world; and at various periods. The rise and growth of cities; problems of emergent cities and attempts at their solution in various places.

Prerequisite: Permission of instructor.

535. Problems in the Emergence of Modern America, 1877-1900. (4 q. hrs.)

An intensive study by the student into the major problems created in this period of industrialization, urbanization, and immigration. The course emphasizes both primary sources and secondary interpretations.

540. Problems in the Diplomatic History of the United States. (4 q. hrs.)

Intensive reading by the student in a major problem of American Dip-

lomatic History. The course emphasizes both secondary and primary works in the area chosen by the professor.

545 (472). Special Problems in American History. (4 q. hrs.)

Special study by intensive reading in an area of history.

546. The Period of the Early Renaissance, 1300-1517. (4 q. hrs.)

A study of the interaction of various institutional and intellectual developments, both religious and secular, which produced the cultural flowering of the early Renaissance, laid the foundations of modern society, and were to contribute to the religious upheaval of the Reformation.

547. The Period of the Later Renaissance and of the Reformation, 1517-1648. (4 q. hrs.)

A study of the interaction of religious and secular influence in the religious revolt and the consolidation of the institutional structure of early modern Europe through the period of the Thirty Years War.

549. European Diplomacy, 1919-1945. (4 q. hrs.)

Detailed study of interwar diplomacy with emphasis on Paris Peace Treaties, Rapallo, Locarno, Munich, Little Entente, Hitler-Stalin Pact, World War II Diplomacy.

550. Abraham Lincoln. (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551 (494). The Literature of American History. (4 q. hrs.)

A study of great historical writings against the backgrounds of the times and places in which they were written.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

561. Historiography and Historical Methods. (4 q. hrs.)

A study of the methods of historical research. Selection of a topic of research and its limitations, the acquisition of material, and the study of style in historical writing.

563. Seminar in American History. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

564. Seminar in European History. (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the students.

565. Seminar in Colonial American History. (4 q. hrs.)

Research in topics dealing with colonial American history.

- 566. Seminar in Civil War and Reconstruction.** (4 q. hrs.)
Intensive study in topics dealing with Civil War and Reconstruction.
- 567. Seminar in Social and Intellectual History.** (4 q. hrs.)
Research in topics dealing with social and intellectual history of the United States.
- 568. Seminar in Eighteenth Century Europe.** (4 q. hrs.)
Intensive study in topics dealing with eighteenth century Europe.
- 569. Seminar in Nineteenth Century Europe.** (4 q. hrs.)
Intensive study in topics dealing with nineteenth century Europe.
- 570. Seminar in Twentieth Century Europe.** (4 q. hrs.)
Intensive study in topics dealing with twentieth century Europe.
- 571. Seminar in Twentieth Century America.** (4 q. hrs.)
Intensive study in topics dealing with 20th century America.
- 572. Russian Foreign Policy, 1814-1960.** (4 q. hrs.)
Study in Russian foreign relations beginning with Congress of Vienna. Special attention given to the Congresses of Paris and Berlin, Russian expansion into the Balkans, Russia's role in both World Wars, Soviet Policy of international Communism and coexistence.
- 573. Seminar in Modern German History.** (4 q. hrs.)
Intensive study of topics dealing either with 19th century Germany, Weimar Republic, National-Socialism, or postwar Germany.
- 574. Seminar in the American West.** (4 q. hrs.)
An intensive study of western topics with emphasis on a seminar paper.
- 575. Seminar in the Labor History of the United States.** (4 q. hrs.)
A detailed study of selected topics in the history of American labor from 1607 to the present stressing research, analysis, and writing in the specialized secondary and primary materials available.
- 576. Seminar in the History of East Central Europe.** (4 q. hrs.)
Intensive topical research on the history of East Central European countries since World War I.
- 577. Seminar in the Middle Ages and the Renaissance.** (4 q. hrs.)
Study and research in selected Medieval and Renaissance topics.
- 595. Thesis.** (4 q. hrs.)

JOURNALISM

(Taught in the Department of English)

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 460. Supervision of High School Publications.** (4 q. hrs.)
A course designed especially for advisers to high school publications, or students interested in such positions. Topics include staff recruitment, staff-faculty relationships, production problems, and editorial judgments.

LIBRARY SCIENCE

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 450. Reference Materials and Services.** (4 q. hrs.)
Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.
Prerequisite: Library Science 320, or permission of instructor.
- 460. Selection of Library Materials.** (4 q. hrs.)
Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection and acquisition.
Prerequisite: Library Science 320.
- 470 (430). Organization of Library Materials.** (4 q. hrs.)
Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials. Detailed study is made of the Dewey Decimal Classification System.
Prerequisite: Library Science 320.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

- 510. History of Libraries.** (4 q. hrs.)
Study of the development of the library as an institution.
- 520. Library Administration.** (4 q. hrs.)
Principles of administration with practical application to the management of libraries. Study of types of libraries, their goals, organization, and service standards. Includes problems of leadership and library cooperation.
Prerequisites: Library Science 450, 460, 470.
- 560. Organization of Information and Library Materials.** (4 q. hrs.)
Advanced study of library catalogs; history, preparation, evaluation, management and proper use. Indexing and storage and retrieval of information are included.
Prerequisites: Library Science 450, 470.
- 561. Introduction to Library Research.** (4 q. hrs.)
A study of the introductory methods of research in the field of library science.
Prerequisites: Library Science 450, 460, 470.

571. Social Science Literature. (4 q. hrs.)

Intensive study and evaluation of the major reference books, periodicals, and indexing and abstracting services in sociology, psychology, economics, anthropology, history, geography, and political science.

Prerequisites: Library Science 450, 460.

572. Literature of the Humanities. (4 q. hrs.)

Study and evaluation of the major reference books, periodicals, and indexing and abstracting services in religion, philosophy, music, art, literature, and language. Includes characteristics of the literature and reference services in these areas.

Prerequisites: Library Science 450, 460.

573. Literature of Science and Technology. (4 q. hrs.)

An intensive study of the major reference books, periodicals, indexing and abstracting media in science and technology.

Prerequisites: Library 450, 460.

585. School Library Problems. (4 q. hrs.)

Study of current problems, trends, research reports, and professional literature relating to elementary and secondary school library service.

586. Mechanization of Library Operations. (4 q. hrs.)

Survey and discussion of machine applications in library operations. Use is made of unit card equipment for demonstrating efficient library operations.

Prerequisites: Library Science 460, 470, 560.

595. Thesis. (4 q. hrs.)**MATHEMATICS****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****455. Linear Algebra II.** (4 q. hrs.)

Vector spaces, linear transformations, and dual spaces, invariant direct-sum decompositions, jordan form, inner product spaces.

Prerequisites: Mathematics 344, 353, or permission of instructor.

458. An Introduction to Differential Geometry. (4 q. hrs.)

The Euclidean space—functions, transformations, differential fields and forms, and study of curves in Euclidean space.

Prerequisite: Mathematics 237.

460, 461. Advanced Calculus. (4 q. hrs. for each course.)

An advanced study of limits, continuity and differentiability of functions; Riemann integrals; vectors and curves, functions of several variables; implicit functions; line and surface integrals.

Prerequisite: Mathematics 237. To be taken in sequence.

470, 471. Statistics. (4 q. hrs. for each course.)

Probability; distributions; discrete and continuous random variables; sampling distributions; estimation and tests of hypotheses; regression and correlation; analysis of variance.

Prerequisite: Mathematics 236. To be taken in sequence.

480. Mathematics of Finance. (4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131.

482. Algebra and Geometry II. (4 q. hrs.)

The study of algebraic structure and informal geometry in elementary mathematics. Groups, rings, fields, probability sets, sets of points, lines, curves, the geometry of space, and methods of proof.

Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 322, or permission of instructor.

490. History of Mathematics. (4 q. hrs.)

Development of numeral systems; ancient Babylonian and Egyptian mathematics; Euclid's Elements; duplication, trisection, and quadrature problems; Hindu and Arabian contributions to mathematics; mathematics in the Dark Ages; origins of modern mathematics.

Prerequisite: Mathematics 134 or permission of instructor.

491. Number Theory. (4 q. hrs.)

Divisibility, primes, congruences, solution of congruences, prime modulus, primitive roots, quadratic residues and reciprocity, numerical functions, Diophantine equations.

Prerequisite: Mathematics 353.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

505. Numerical Analysis. (4 q. hrs.)

Rounding errors, difference equations, solutions of equations and systems of equations, interpolation, numerical differentiation.

Prerequisite: Mathematics 231 or 507; and Mathematics 350.

507. Digital Computer Techniques. (4 q. hrs.)

Programming techniques using machine language, symbolic and automatic programming languages.

Prerequisite: Mathematics 237 or permission of the instructor.

508. Intermediate Computer Programming. (4 q. hrs.)

The structure and syntax of ALGOL. Selective topics in computer science.

Prerequisite: *Mathematics 231, or Mathematics 507, or permission of the instructor.*

510, 511, 512. Modern Algebra. (4 q. hrs. for each course.)

Groups. Rings. Fields. Galois theory.

Prerequisite: *Mathematics 344 and 353 or permission of the instructor.*

515. Probability. (4 q. hrs.)

Elementary and general probability spaces. Random variables and expectation.

Prerequisite: *Mathematics 237.*

516, 517. Mathematical Statistics. (4 q. hrs. for each course.)

Point estimation, testing statistical hypotheses, confidence intervals, regression, analysis of variance, nonparametric methods.

Prerequisites: *Mathematics 515 or permission of the instructor; Mathematics 516 required for Mathematics 517.*

520, 521. Higher Geometry. (4 q. hrs. for each course.)

A selection of topics from projective geometry, differential geometry, non-Euclidean geometries.

Prerequisite: *Mathematics 344 or permission of the instructor.*

522. Topology. (4 q. hrs.)

Metric spaces. Topological spaces. Connectedness. Compactness.

Prerequisite: *Mathematics 460, or permission of the instructor.*

530, 531, 532. Real Variables. (4 q. hrs. for each course.)

Set theory, Cardinal numbers. Real numbers. Measure. Measurable sets. Lebesgue and Riemann integrals. The fundamental theorem of the calculus.

Prerequisite: *Mathematics 461, or permission of the instructor.*

533, 534, 535. Complex Variables. (4 q. hrs. for each course.)

The complex plane and its subsets. Fractions, powers, roots, holomorphic functions. Power series. Complex integration. Representation of functions. The calculus of residues. Analytic continuation.

Prerequisite: *Mathematics 461, or permission of the instructor.*

540. The Teaching of Arithmetic in the Primary and Intermediate Grades. (4 q. hrs.)

The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades one through six.

Prerequisite: *Enrollment in the curriculum for elementary teachers. Mathematics 482 or permission of the instructor.*

541. The Teaching of Mathematics, in Grades 7, 8, and 9. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

545, 546, 547. Independent Study in Mathematics. (4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student, subject to the approval of his adviser.

Prerequisite: *12 q. hrs. of credit in graduate level mathematics.*

550. Mathematics in Modern Education and Life. (4 q. hrs.)

The subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Problems in the Teaching of Secondary Mathematics. (4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

595. Thesis. (4 q. hrs.)**610. Groups.** (4 q. hrs.)

Preliminaries, abelian groups, P-groups, permutation groups, group extensions, representation theory.

Prerequisite: *Mathematics 512.*

611. Rings and Fields. (4 q. hrs.)

Field theory, galois theory, ideal theory, ring theory.

Prerequisite: *Mathematics 610.*

612. Topological Groups. (4 q. hrs.)

Topological groups, homomorphisms of topological groups, direct products, local properties of topological groups, locally compact topological groups.

Prerequisites: *Mathematics 512 and 522.*

620. Differential Geometry I. (4 q. hrs.)

The classical theory of curves and surfaces in three dimensional Euclidean space.

Prerequisites: *Mathematics 237 and 344.*

621. Differential Geometry II. (4 q. hrs.)

Introduction to the notions of differentiable manifolds and tensors. Application to the study of differential geometry of curves and surfaces. Introduction to Riemannian geometry of dimension 2. Application to non-Euclidean geometries.

Prerequisites: *350 and 620.*

622. Introduction to Differentiable Manifolds. (4 q. hrs.)

Introduction to the notions of differentiable manifolds. Fiber bundles and lie groups.

Prerequisites: Mathematics 351, 522, and 621.

623. Algebraic Topology I. (4 q. hrs.)

Introduction to homology theory. Complexes, homology and cohomology groups, topological invariance of homology properties.

Prerequisites: Mathematics 510 and 522.

624. Algebraic Topology II. (4 q. hrs.)

Introduction to the homotopy theory. Manifolds, spheres, Poincare and Alexander. Duality theorems, the fundamental group, covering complexes.

Prerequisite: Mathematics 623.

PHYSICAL SCIENCE**GRADUATE COURSES**

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. Special Problems in Physics Theory. (4 q. hrs.)

A special institute course covering both selected topics in modern physics and methodology in physics.

PHYSICS**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****461, 462. Experimental Physics.** (4 q. hrs. for each course)

Experiments from various phases of physics. Emphasis is placed upon selection of the experiment, planning the procedure, analyzing the results, and reporting. Four laboratory periods a week.

Prerequisite: Physics 466 and one year of calculus.

465. Heat and Thermodynamics. (4 q. hrs.)

Thermometry, thermodynamic laws; changes of phase; gas laws; mechanical relations and heat engines; adiabatic transformations; entropy, kinetic theory and statistical mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week.

466. Quantum Mechanics and Atomic Physics I. (4 q. hrs.)

Atomic nature of matter, limitations of classical physics; Schrodinger equation, uncertainty principle; atomic spectroscopy, outer electrons. Three lecture periods and one three hour laboratory period per week.

Prerequisite: First year college physics and one year of calculus.

467. Quantum Mechanics and Atomic Physics II. (4 q. hrs.)

Exclusion principle; angular momentum; atomic spectroscopy, inner electrons; perturbation theory. Three lecture periods and one three hour laboratory period per week.

Prerequisite: Physics 466.

468. Nuclear Physics. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

469. Solid State Physics. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of the instructor. Four hours a week.

480, 481. Independent Study. (4 q. hrs. for each course.)

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Mathematical Physics. (4 q. hrs.)

Special differential equations; special functions; elements of complex integration; tensors; calculus of variations; eigen values and eigen functions; matrices and matrix algebra; numerical calculations.

Prerequisite: Physics 240 and 342. Four hours a week.

534. Theoretical Mechanics. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: Physics 240 or equivalent and Mathematics 351. Four hours a week.

535. Theoretical Mechanics. (4 q. hrs.)

Constrained motion, oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week.

540. Electrodynamics. (4 q. hrs.)

Electrostatic; general methods of solving potential problems; boundary value problems; multipoles, dielectrics; magnetostatics.

Prerequisite: Physics 342. Four hours a week.

541. Electrodynamics. (4 q. hrs.)

Maxwell's equations; electromagnetic waves; wave guides and resonant cavities; radiation and diffraction; special theory of relativity.

Prerequisite: Physics 540. Four hours a week.

542. Electrodynamics. (4 q. hrs.)

Relativistic particle dynamics; collisions, energy loss and scattering; radiation by moving charges; multiple fields; radiation damping, self-fields, scattering and absorption.

Prerequisite: Physics 541. Four hours a week.

560. Quantum Mechanics. (4 q. hrs.)

A study of quantum eigen values and eigen functions of the Schrodinger equation for various central fields; angular momentum eigen functions; perturbations dependent on and independent of time.

Prerequisite: An undergraduate major in physics. Four hours a week.

561. Quantum Mechanics. (4 q. hrs.)

The quasi-classical case; spin and spinors; identify and exchange interaction of particles; the hydrogen atom and extension of the Schrodinger equation to other atoms and effects, the diatomic molecule and vibrational and rotational spectra; polyatomic molecules.

Prerequisite: Physics 560. Four hours a week.

562. Quantum Mechanics. (4 q. hrs.)

Elastic and inelastic collisions; Feynman notes; spin and statistics, relativity, Fermi coupling and the failure of parity; pion-nucleon coupling; strange particles; fundamental laws of electromagnetics and B-decay coupling.

Prerequisite: Physics 561. Four hours a week.

580. Independent Study in Physics. (4 q. hrs.)

Selected problems based upon the student's background and interests. Laboratory, reading, conference, and oral reports.

Prerequisite: Permission of the instructor.

590. Mathematical Physics. (4 q. hrs.)

Waves in an elastic medium; motion of fluids; scalar and vector fields and the variational principle; complex numbers and complex variables; Cauchy's Theorem; branch points and branch lines; Riemann surfaces; calculus of residues; gamma and elliptic functions; Fourier transforms; differential equations and separable coordinates; series solutions and the Wronskian; integral representations of differential equations.

Prerequisite: Physics 520. Four hours a week.

591. Mathematical Physics. (4 q. hrs.)

Boundary conditions and eigen functions; Green's functions and generating functions; Green's functions for steady waves and for diffusion; integral equations of physics; kernels; Fredholm Equations; approximate methods; La Place's and Poisson's Equations in two and three dimensions; integral and variational techniques for solving wave equations.

Prerequisite: Physics 590. Four hours a week.

595. Thesis. (4 q. hrs.)**POLITICAL SCIENCE****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****450. International Law.** (4 q. hrs.)

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government.

Prerequisite: Political Science 220, or 221, or 222.

451. The Supreme Court and the Federal System. (4 q. hrs.)

Supreme Court decisions on: Judicial Review, Federalism, Powers of Congress, Powers of the President, Contracts, Commerce and Taxation.

Prerequisite: Political Science 110, 111; or permission of the instructor.

452. The Supreme Court and Civil Rights. (4 q. hrs.)

The history, the present status and the future prospects of civil liberties as interpreted by the Supreme Court. The main emphasis is upon recent decisions of the Court on such topics as citizenship, speech, press, religion, Communism, race discrimination and criminal procedure.

Prerequisite: Political Science 110, 111, or permission of instructor.

461. Statistics and Research Techniques in the Behavioral Sciences.

(4 q. hrs.)

Programmed as Social Science 461.

465. Public Administration. (4 q. hrs.)

Growth of public administration, the system of responsibility and accountability, relationship of administration and politics, technical aspects of administration, problems of administrative leadership and direction.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

480. Politics of the Emerging Nations. (4 q. hrs.)

A comparative survey of the politics, policies, and problems of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

481. Latin American Government and Politics. (4 q. hrs.)

A systematic study of the formal structures of Latin-American governments with an analytical and interpretive examination of the political processes which underlie them.

Prerequisite: Twelve quarter hours in political science or Latin American studies major, or permission of the instructor.

490. Political Theory: Ancient and Medieval. (4 q. hrs.)

The origins and evolution of major concepts in political thought from the time of Pericles through the Conciliar Movement.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

491. Political Theory: Renaissance and Modern. (4 q. hrs.)

A continuation of the study of political thought from the time of Niccolo Machiavelli through Karl Marx.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

492. Contemporary Political Theory. (4 q. hrs.)

Contemporary concepts in Western Political thought. Emphasis upon the development of modern conservatism, liberalism, Marxism, and national socialism. Independent research interests encouraged.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

493. Latin American Political Theory. (4 q. hrs.)

Latin American political thought: its origins in Spain and Portugal; the colonial period and independence; the adaptations and changes under the republics; contemporary concepts.

Prerequisite: Twelve quarter hours in political science or Latin American Studies major, or permission of the instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500, 501. Administrative Internship. (4 q. hrs. for each course.)

Each student will serve as an intern in a federal, state, county, municipal or a party organization or agency appropriate to his area of concentration within the department's offerings. Weekly field reports and an end-of-term evaluation of the internship will be required.

521. Contemporary Problems in International Politics. (4 q. hrs.)

An analysis of the course of world politics since World War II with attention given to the impact of the continuing crisis upon the policies of the major powers. An extensive policy-planning paper will be prepared by each

student with a consideration of methods used in analyzing international politics.

Prerequisite: Political Science 220, or permission of the instructor.

530. Readings in Comparative Government. (4 q. hrs.)

Reading and analysis of the recent literature of theory development and research findings in the comparative government area. Specific topics will be at the discretion of the instructor.

Prerequisite: Twelve quarter hours in comparative government or international relations, or permission of the instructor.

531. Seminar in Political Modernization. (4 q. hrs.)

Detailed study and analysis of selected topics in the political processes and governmental structures of the developing nations. Individual topics will be chosen to meet the needs and interests of the students.

Prerequisite: Twelve quarter hours in political science or permission of instructor.

541. Community Political Systems. (4 q. hrs.)

An analysis of politics in terms of social, political, and psychological influences on decision-making processes at the level of local political communities in the United States.

Prerequisite: Political Science 364 or permission of the instructor.

550. The American Presidency. (4 q. hrs.)

Development, powers and limits of the American Presidency, with emphasis upon Presidential decision making.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

562. Problems in Municipal Government. (4 q. hrs.)

The political structure and administration of municipalities in the United States, including the legal position of the municipality, revenue problems, pressure groups, civil rights, planning, zoning, housing, welfare, and metropolitan government.

Prerequisite: Political Science 364 or permission of the instructor.

563. Seminar in Public Administration. (4 q. hrs.)

The environment of public administration, functions of the administrator, organizational theory and practice, personnel administration, financial administration, administrative law, and administrative responsibility.

Prerequisite: Political Science 465 or permission of the instructor.

564. Seminar, Problems in State and Local Government. (4 q. hrs.)

Research in selected problems in state and local government. Subjects considered vary from year to year depending upon the interests of the students and current developments in the area. Special attention is given to problems of Illinois state and local governments.

Prerequisite: Political Science 364 or permission of the instructor.

565. Seminar in Political Analysis. (4 q. hrs.)

An introduction to the problems involved in constructing and carrying out systematic research designs in the study of politics.

Prerequisite: Twelve quarter hours in political science or permission of the instructor.

570. Contemporary Constitutional Development. (4 q. hrs.)

Case-book approach to the study of the influence of the Supreme Court and development of constitutional law. Emphasis upon recent decisions of the Court.

Prerequisite: Political Science 451 or 452 or permission of the instructor.

590. Seminar in Contemporary Political Theory. (4 q. hrs.)

Intensive examination of the development of political theory since the First World War with an emphasis on individual research.

Prerequisite: Twelve quarter hours in political science or permission of instructor.

595. Thesis. (4 q. hrs.)**599. Independent Study.** (4 q. hrs.)

To offer opportunity for a student to pursue extensive study in some specialized area of interest in political science. Student presents an individual study plan and does intensive research on a selected topic.

Prerequisite: Twelve quarter hours in political science or permission of instructor.

PSYCHOLOGY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****450. Psychology of Exceptional Children.** (4 q. hrs.)

Psychological diagnosis of, and therapeutic programs for, children who deviate from the normal.

Prerequisite: Psychology 231.

451. Abnormal Psychology. (4 q. hrs.)

An examination of etiology, diagnosis, treatment and prevention of neuroses, psychoses, and psychosomatic disorders.

Prerequisite: Psychology 231.

452. Psychological Measurements: Intelligence Testing. (4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and 360.

455. Mental Hygiene. (4 q. hrs.)

Stresses the problem of maintaining mental health as related to the home, school, civic and other social situations.

Prerequisite: Psychology 231.

457. Social Psychology. (4 q. hrs.)

A study of individual behavior and psychological processes in the social and cultural setting, with emphasis on psychological studies and empirical research of social issues.

Prerequisite: Psychology 231.

462. Theories of Learning. (4 q. hrs.)

A survey and comparison of theories of learning.

Prerequisite: Psychology 362 or permission of the instructor.

SOCIAL SCIENCE**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****461. Statistics and Research Techniques in the Behavioral Sciences.** (4 q. hrs.)

Basic methods of statistical research; measures of central tendency; dispersion; normal and binomial distribution; correlation; influence sampling; polling and interviewing.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

540. Problems in Teaching Social Studies. (2, 3 or 4 q. hrs.)

Provides the student with the opportunity for intensive study of special problems and trends in the social studies curriculum and for development of improved teaching techniques.

Prerequisite: Teaching experience in the social studies or the permission of the instructor. May be taken more than once with permission of the division head.

SOCIOLOGY**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****452. The Development of Sociological Thought.** (4 q. hrs.)

This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry.

Restricted to majors and minors in sociology and social science.

455. The Community. (4 q. hrs.)

Analysis of community structure and function, ecological patterns and processes, social problems, and community action techniques.

Prerequisite: Sociology 271 or permission of the instructor.

458. Work and Leisure in Mass Society. (4 q. hrs.)

An analysis of the patterns and theories of work and leisure. Emphasis on the industrial revolution, the technological revolution, and cybernation and their impact on society.

Prerequisite: Sociology 271 or consent of the instructor.

461. Statistics and Research Techniques in the Behavioral Sciences. (4 q. hrs.)

Programmed as Social Science 461.

470. Sociology of Medicine. (4 q. hrs.)

An analysis of the interrelationships between pathology and interpersonal relations as well as social structure and function.

Prerequisite: Sociology 271.

472. Social Stratification. (4 q. hrs.)

A descriptive and theoretical analysis of social stratification; study of the problems created by differential status, power, and social mobility.

Prerequisite: Sociology 271.

473. Marriage and the Family. (4 q. hrs.)

The historical background of the modern family; the impact of culture and social change on marriage and the family; personality factors involved in marriage; family disorganization.

Prerequisite: Sociology 271.

474. The Social Problems of Minority Groups. (4 q. hrs.)

A study of racial and cultural minorities; causes and consequences of prejudice and discrimination; institutional patterns of intergroup relations; and trends.

Prerequisite: Sociology 271 or permission of the instructor.

475. Crime and Juvenile Delinquency. (4 q. hrs.)

The problems of crime and delinquency; etiological factors in crime and delinquency; prevention, penology and rehabilitation.

Prerequisite: Sociology 271.

490, 491. Individual Problems in Sociology (4 q. hrs. for each course.)

Analysis of selected social problems with emphasis on sociological research techniques.

Restricted to majors in sociology and social science.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

503. Contemporary Sociological Theory. (4 q. hrs.)

A consideration of the dominant views in contemporary sociological theory; conceptual orientations such as symbolic interaction, structural-functionalism, social action, social change, problems in objectivism, subjectivism, positivism, etc., together with suitable historic antecedents will be analyzed.

Prerequisite: Sociology major or consent of the instructor.

505. Methods of Quantitative Analysis. (4 q. hrs.)

Study of the methods of inquiry, collection, and analysis of data in behavioral sciences. Emphasis on the statistical techniques that constitute a unified, systematic, and logical approach to the study of social phenomenon.

507. Sociological Research Methods. (4 q. hrs.)

Emphasis on the development of research methods, research design, the selection of samples, collection of data, and the interpretation and analysis of research findings.

Prerequisite: Sociology 505.

510. Social Organization. (4 q. hrs.)

Social groups will be analyzed in the context of social structure, latent and manifest functions, the nature of recruitment, the socialization process, the social processes involved, and intra-group and inter-group relationships.

520. Urban Social Problems. (4 q. hrs.)

The social problems of the modern urban environment will be analyzed in depth. The generation of hypotheses and future research will be emphasized.

530. The School and the Community. (4 q. hrs.)

A sociological analysis of the interrelationships between the school and the community. Special emphasis on the decision-making process, as well as the impact of social problems on the school, such as poverty, community conflict, and de facto segregation.

532. Schools and the Urban Crisis. (4 q. hrs.)

The major problems of educational institutions in a changing urban environment will be examined from a sociological perspective. Emphasis on the relationships between the problems of the schools and the larger community, and the role of the school as an instrument of social change.

540. Problems of the American Family. (4 q. hrs.)

A seminar to investigate the various theoretical orientations and methodological techniques in the study of family problems. Patterns, trends, and adjustment mechanisms will be analyzed.

556. Sociological Aspects of Gerontology. (4 q. hrs.)

Consideration will be given to the structural and functional aspects of the social order as related to the aging process. Current gerontological theories and research are to be reviewed.

560. Sociological Analysis of Juvenile Delinquency. (4 q. hrs.)

An advanced study of the theory, treatment, and prevention of juvenile delinquency.

570. Sociological Analysis of Crime. (4 q. hrs.)

A review of approaches to the study of crime and an analysis of theories of criminal behavior. Penal theories, practices, and problems will also be analyzed.

580. Social Change. (4 q. hrs.)

Theories of social change will be studied; emphasis on social change as an on-going process through a review of historical and contemporary examples.

595. Thesis. (4 q. hrs.)**SPEECH****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****452. Advanced Theory of Mass Communications.** (4 q. hrs.)

A survey of legal precedents which constitute broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research dealing with all mass communication.

453. General Semantics. (4 q. hrs.)

Study of some basic characteristics of our language including the influence of language structure and levels of abstraction upon thoughts and action.

470. Psychology of Speech. (4 q. hrs.)

A study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; individual and group communication; personality and speech.

480. Contemporary American Public Address. (4 q. hrs.)

A study of competing points of view on a series of critical issues of the twentieth century.

490. Directing Forensic Activities. (4 q. hrs.)

The course is designed to prepare those entering the field of speech education on the secondary and college levels to direct an extracurricular forensics program.

Prerequisite: Speech 232 and 234.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Problems in Speech. (4 q. hrs.)

The study of and reports on a specific problem in speech. Student presents an individual study plan and does intensive research on a topic dealing with the history, theory, and/or practice of speech.

532 (471). Background of Rhetoric. (4 q. hrs.)

A survey of Classical, Medieval, and Renaissance Theories of Rhetoric including the works of Plato, Aristotle, Cicero, Quintilian, Augustine, Ramus, Sherry, Wilson, Cox, and others.

540 (472). American Public Address. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.

541. American Public Address. (4 q. hrs.)

A study of public speaking in America from 1850 through the early twentieth century.

555. Research in Speech. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech.

560. Deliberation of Human Problems. (4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

562. Modern Rhetorical Theory. (4 q. hrs.)

A survey of theories of rhetoric from the eighteenth century to the present. Attention is given to the works of Ward, Blair, Campbell, Whatley, Adams, Austin, Curry, Burke, Flesch, Hall, Hefferline, Schramm, Weiner, Richards, Winans, Woolbert, Brigance, and others.

572. British Public Address. (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

595. Thesis. (4-8 q. hrs.)**SPEECH PATHOLOGY AND AUDIOLOGY****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****457. Clinical Practice.** (1-4 q. hrs.)

Experience in organizing and conducting speech and hearing surveys; supervised work with a variety of speech and hearing defects.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech Pathology and Audiology 260, 263.

460. Speech Correction for the Classroom Teacher. (4 q. hrs.)

Provides the classroom teacher with necessary insights into child with defective speech. Course content includes classification, incidence prevention, and classroom management of defective speech and nature of speech correction services.

495, 496. Independent Study. (4 q. hrs. for each course.)

Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

561. Introduction to Graduate Study in Speech Pathology and Audiology. (4 q. hrs.)

To orient the new graduate student to the nature, purposes, and methods of advanced study with emphasis on understanding of individual research and study.

Prerequisite: Permission of instructor.

562. Articulation Disorders. (4 q. hrs.)

Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and therapy are stressed.

Prerequisite: Speech Pathology and Audiology 402.

563. Stuttering. (4 q. hrs.)

Advanced study of the problem; integration of prominent theories and therapies in stuttering; analysis of significant findings and trends in research on stuttering.

Prerequisite: Speech Pathology and Audiology 403.

564. Voice Disorders. (4 q. hrs.)

Advance study of etiology and therapy for functional and organic voice problems. Voice pitch, quality, and intensity.

Prerequisite: Speech Pathology and Audiology 402.

565. Audiometry. (4 q. hrs.)

Students develop advanced proficiency in the assessment of hearing losses. Emphasis is placed on a functional test battery, analysis of diagnostic problems and procedures, hearing aid selection.

Prerequisite: Speech Pathology and Audiology 405.

566. Aural Rehabilitation. (4 q. hrs.)

Advanced study of rehabilitation for the hard-of-hearing.

Prerequisite: Speech Pathology and Audiology 406, 565.

567. Advanced Clinical Practice. (1-4 q. hrs.)

Supervised corrective work with clients with speech and/or hearing defects. Special efforts are made to provide each student with the kinds of clinical therapy experiences he has not met previously.

Prerequisite: Speech Pathology and Audiology 457.

568. Organic Speech Disorders. (4 q. hrs.)

Advanced study of cleft palate and cerebral palsy in children and adults; etiology, diagnosis, and therapy.

Prerequisite: Speech Pathology and Audiology 408 or permission of the instructor.

569. Speech Correction Problems in the Schools. (4 q. hrs.)

Problems in speech therapy with school age children. Special emphasis is placed upon an understanding of the function of the speech correctionist employed in the public school.

Prerequisite: Speech Pathology and Audiology 260, Education 441, 442, 443, or permission of the instructor.

570. Research Procedures in Speech Science. (4 q. hrs.)

Some major instruments and procedures in experimental phonetics, voice research, and other research areas in speech pathology.

Prerequisite: Speech Pathology and Audiology 561.

572. Language Disturbances. (4 q. hrs.)

Language patterns of children and adults with oral communication impairments. Special emphasis is placed on the diagnostic and therapeutic procedures.

Prerequisite: Speech Pathology and Audiology 260, 262, 408, Psychology 452, or permission of the instructor.

575, 576. Independent Study. (4 q. hrs. for each course.)

Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing therapy.

Prerequisite: Permission of the instructor and the department head.

595. Thesis. (4 q. hrs.)

THEATRE ARTS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. From Ritual to Romance: Theatre Art of Greece, Rome and the Middle Ages. (4 q. hrs.)

462. A Focus on Diversity: Theatre Art from the Renaissance to the Beginnings of Realism. (4 q. hrs.)

464. Realism to Revolt: Theatre Art from the Art Theatre to Avant-Garde. (4 q. hrs.)

481. Summer Theatre. (8-12 q. hrs.)

The courses are designed to give practical, comprehensive experience in dramatic art. Credit for 8 or 12 quarter hours may be earned in one summer. Eight hours may be applied to a master's degree.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

595. Thesis. (4 q. hrs.)

ZOOLOGY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

450. Methods in Biological Research. (2 q. hrs.)

An introduction to the principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data.

Prerequisite: Junior standing.

451. Microtechnique. (4 q. hrs.)

Methods and practice in the preparation of microscope slides of animal tissues. A suitable collection of slides may be made for later use in teaching.

Prerequisite: 24 q. hrs. of zoology.

452. Animal Behavior. (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: 24 q. hrs. of zoology or permission of the instructor.

453. Animal Ecology. (4 q. hrs.)

Interrelations between animals and their physical and biotic environments; biotic communities; population changes; succession; geographic distribution; adaptations. Laboratory work is done largely in the field.

Prerequisite: 24 q. hrs. of zoology, or equivalent and permission of the instructor.

455. Ornithology. (4 q. hrs.)

A study of the life histories, adaptations, and structure of birds. Special emphasis upon migration, songs, nests and economic importance of our native birds.

Prerequisite: 12 q. hrs. of zoology; Zoology 212 recommended.

456. Field Zoology. (4 q. hrs.)

An intensive course in the classification and natural history of animal life indigenous to this region, exclusive of insects and birds.

Prerequisite: 24 q. hrs. of zoology or equivalent; Zoology 460 recommended.

457. Wildlife Management. (4 q. hrs.)

A study of the principles of wildlife management with emphasis on terrestrial game animals and related species; their ecology, life histories and conservation.

Prerequisite: 12 q. hrs. of zoology including Zoology 212 or equivalent; Zoology 453 and 455 recommended.

458. Limnology. (4 q. hrs.)

A study of the aquatic ecosystems of lakes, rivers and streams with emphasis on the physical environment as well as on the biological communities involved in such ecosystems.

Prerequisites: One year of chemistry; 16 q. hrs. of zoology.

460. Invertebrate Zoology. (4 q. hrs.)

This course deals comprehensively with the phylogeny, morphology, physiology, ecology, geographical distribution and economic importance of invertebrate animals.

Prerequisite: 24 q. hrs. of zoology.

465. Herpetology. (4 q. hrs.)

Studies on reptiles and amphibians including structure, classification, phylogeny, adaptation, behavior, distribution, ecology and physiology.

Prerequisites: Zoology 212 and 214 or their equivalents.

470 (454). Animal Histology. (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Prerequisite: Zoology 451 or permission of the instructor.

475. Mammalogy. (4 q. hrs.)

A study of mammals with emphasis on classification, distribution, natural history and ecology.

Prerequisites: Zoology 212 and 214 or their equivalents.

480. Ichthyology. (4 q. hrs.)

Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world.

Prerequisite: Advanced standing in zoology.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and

the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. History of Biology. (4 q. hrs.)

A survey of the development of biological sciences from pre-history to the present. Contributions by various civilizations will be covered up to the Renaissance. After that era the development of specific fields (anatomy, genetics, etc.) will be considered.

Prerequisite: 24 q. hrs. of biological science.

521. Organic Evolution. (4 q. hrs.)

The principles of, and evidence for, organic evolution; history of the development of theories, and of scientists concerned with the subject.

Prerequisite: A minor or the equivalent in zoology.

525. Protozoology. (4 q. hrs.)

The morphology, physiology, ecology and life histories of free-living and parasitic protozoa. Includes laboratory and field studies.

Prerequisite: 12 q. hrs. of zoology and 12 q. hrs. of chemistry.

530. Nematology. (4 q. hrs.)

A study of the taxonomy, morphology, physiology, ecology and culture of the free-living and parasitic nematoda.

Prerequisites: A minor or the equivalent in zoology and a course in organic chemistry.

535. Arthropodology. (4 q. hrs.)

A study of the classification, distribution, evolution and natural history of the arthropods exclusive of insects, with emphasis on the terrestrial forms.

Prerequisite: A minor or the equivalent in zoology. Zoology 343 and 460 recommended.

540. Cell Physiology. (4 q. hrs.)

A study of the fundamental physical and chemical processes which underlie cellular structure and function.

Prerequisites: Zoology 350 and one course in organic chemistry.

549. Paleozoology. (4 q. hrs.)

Examination of the problems involved in studying ancient organisms as biological entities and how some techniques of geological and biological science can be utilized to solve some of these problems.

Prerequisites: Zoology 453 and 460, or permission of the instructor.

550. Ornithology. (4 q. hrs.)

This course includes the study of structure, habits, life histories, migrations, identification, and conservation of birds. There is both field and laboratory work.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

551. Local Fauna. (4 q. hrs.)

A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving and identifying animals are stressed. Includes a study of the habits and life histories of selected forms.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

555, 556, 557, 558. Advanced Zoology. (4 q. hrs. for each course.)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of zoology.

Prerequisite: A minor in zoology or the permission of the department head.

560. Advanced Systematics. (4 q. hrs.)

A study of the methods and principles of animal taxonomy, including speciation and zoogeography.

Prerequisite: A minor or the equivalent in zoology.

561. Endocrinology. (4 q. hrs.)

A study of the endocrine glands, the action of hormones, and the general features of the endocrine system.

Prerequisite: A minor or the equivalent in zoology, and at least one course in organic chemistry.

595. Thesis. (4 q. hrs.)

FACULTY FOR PROFESSIONAL EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Studies in Education. (4 q. hrs.)

475. Education in the Inner City School. (4 q. hrs.)

A course in methods, materials, characteristics and values basic to the teaching of students who attend the inner city school.

Prerequisite: Sixteen quarter hours in education and psychology, or permission of the instructor.

477. The Junior High School. (4 q. hrs.)

Study of historical development, basic philosophy, and current practices, problems, and trends in the junior high school.

Prerequisite: Education 232 and admission to teacher education.

482. School-Community Relations. (4 q. hrs.)

Procedures and practices in developing a good school-community relations program.

Prerequisite: Sixteen quarter hours in education and psychology, or permission of the department.

485. School Law. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school.

Prerequisite: Twelve quarter hours in education and psychology.

487. Introduction to Audio-Visual Education. (4 q. hrs.)

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Twelve quarter hours in education and psychology.

488. Preparation and Use of Instructional Materials. (4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Twelve quarter hours in education and psychology.

490. Principles and Techniques of Guidance. (4 q. hrs.)

An introductory course, principles and purposes underlying guidance activities; means by which guidance activities may be carried on in the school system.

Prerequisite: Twelve quarter hours in education and psychology.

491. Guidance in the Elementary School. (4 q. hrs.)

A study of principles and techniques of guidance services in the elementary school.

Prerequisites: 16 q. hrs. of education and psychology.

492 (577). Residence Hall Personnel Work. (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls including administrative, business, counseling, and teaching duties.

Prerequisite: Education 490.

495. The Mentally Handicapped Child. (4 q. hrs.)

A study of the characteristics of mentally handicapped children.

Prerequisites: Admission to teacher education, Education 232 or an acceptable substitute.

496. Educational Procedures for Educable Mentally Handicapped Children. (4 q. hrs.)

Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children.

Prerequisite: Education 495 or permission of the instructor.

497. The Child with Learning Disabilities. (4 q. hrs.)

This course will deal with the nature and characteristics of pupils with learning disabilities. Pupils with epilepsy, aphasia, and brain damage will be studied.

Prerequisite: Admission to teacher education. Education 232 or an acceptable substitute.

498. The Diagnosis of Learning Disabilities. (4 q. hrs.)

The study of the means and methods of diagnosing learning disabilities of children which interfere with their learning processes.

Prerequisite: Admission to teacher education. Education 497, or permission of instructor.

499. Remediation of Learning Disabilities. (4 q. hrs.)

This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied.

Prerequisites: Admission to teacher education. Education 497, 498, or permission of instructor.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

520. Television in Education. (4 q. hrs.)

Methods and techniques of television production, direction, and operation of equipment. Both open circuit and closed-circuit television are covered. Although the approach is mainly to television use in education, it is applicable to commercial television. (No substitute course may be used.)

521. Audio-Visual Systems. (4 q. hrs.)

Theory and principles in use of various systems such as teaching machines and programmed learning, filmed courses, taped courses, language laboratory programs. Emphasis is on the position of these systems in the curriculum and their influence on the curriculum and the teaching-learning situation.

522 (484). Photography in Audio-Visual Education. (4 q. hrs.)

Photographic techniques for making materials for use in classroom instruction, community resources and school public relations. Emphasis will be upon obtaining materials for prints, color slides and large transparencies to be used in the classroom.

Prerequisite: Permission of the instructor.

523. Organization and Supervision of Audio-Visual Programs. (4 q. hrs.)

The problems of organizing and supervising all the common educational media in the individual school, district, county and/or university are considered. Major emphasis is on television, films, various forms of graphics, programmed instruction, recordings, etc.

527. Reading Instruction in the Junior and Senior High School. (4 q. hrs.)

A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs.

Prerequisite: 16 quarter hours of education and psychology.

528 (469). Problems in the Teaching of Reading. (4 q. hrs.)

A study of the types and causes of reading difficulty; methods of diagnosis and remedial work useful to classroom teachers, remedial reading teachers and supervisors.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 328.

540 (459). Advanced Educational Psychology. (4 q. hrs.)

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology.

541, 542. Educable Mentally Handicapped Practicum. (4 q. hrs. for each course).

Supervised practicum with pupils who are designated as educable mentally handicapped.

Prerequisite: Education 496.

543. Measurement and Evaluation. (4 q. hrs.)

544. Educational Statistics. (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology.

549. Special Educational Problems. (1-4 q. hrs.)

Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature.

Prerequisite: Permission of the instructor.

550. Principles of Curriculum Development. (4 q. hrs.)

Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

551. Social Foundations of Education. (4 q. hrs.)

The school in society; effects of cultural patterns, social classes, community organizations, and some social problems.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

552. Understanding the Individual. (4 q. hrs.)

Personality development and concepts of the self; need satisfaction and

perception of threat; problems of adjustment and determinants of personality.

Prerequisite: Twelve quarter hours in education and psychology. *Credit applicable to Group I of the requirements for the degree in M.S. in Ed.*

553. Philosophy of Education. (4 q. hrs.)

A study of some modern educational ideologies and of their relations with ethics, politics, religion, and art.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

554. History of Educational Thought. (4 q. hrs.)

Important educational events and ideas as these developed in Western civilization; the historical perspective for evaluating present controversies and trends.

Credit applicable to Group I of the requirements for the degree M.S. in Ed.

558. Child Study for the Elementary School Teacher. (4 q. hrs.)

A study of the behavior of children as influenced by the impact of factors: physical, family relationships, cultural, social concepts (self), school experiences. Various child study techniques employed in gathering and handling child data for child study problems in the classroom.

Prerequisite: Education 232 or equivalent. 16 q. hrs. in education and child psychology. *Limited to experienced teachers working with children.*

559. Seminar in Nursery-Kindergarten Education. (4 q. hrs.)

An analysis of curriculum issues and problems in nursery-kindergarten education. Each student will select a problem or project as a major center of interest.

Prerequisite: Teaching experience and permission of the instructor.

560. Introduction to Research in Education. (4 q. hrs.)

Gives experiences in locating and defining problems, in using research techniques, in writing in acceptable form, and interpreting and evaluating research.

Prerequisite: Sixteen quarter hours of education and psychology.

561. Advanced Developmental Reading. (4 q. hrs.)

A study of the educational and psychological backgrounds of reading instruction. Emphasis is placed upon the nature of the reading instruction, programs of instruction, and methods and materials.

Prerequisite: Education 328 or equivalent.

562. Remedial Reading Practicum. (4-8 q. hrs.)

Supervised practice in working with individual students in remedial reading situations. Practice will be provided using students from the laboratory school or from schools of the surrounding area.

Prerequisite: Education 528 and permission of instructor.

563. Supervision and Curriculum in Reading. (4 q. hrs.)

A study of selected curricula and the planning of a sound school curriculum in reading; an understanding of the functions and duties of the reading supervisor or consultant and the effective ways of implementing them.

Prerequisite: Eight quarter hours in reading instruction.

564. Teaching and Supervision of Social Studies in Elementary Schools. (4 q. hrs.)

A study of the objectives, the scope and sequence of content in teaching social studies in elementary schools. Consideration is given to methods and techniques used in providing for individual differences through the effective use of concrete experience, audio-visual materials, group dynamics, reading, and evaluation.

565 (470). Language Arts in the Elementary School. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading and children's literature) with emphasis on the implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Twelve quarter hours in education and psychology.

566. The Science Curriculum in the Elementary School. (4 q. hrs.)

A course to help the elementary teacher, the elementary supervisor, and the elementary principal improve the elementary science curriculum. Scope and sequence of elementary school science; revision of existing curricula; selection of materials for teaching the revised elementary science curricula.

Prerequisite: Eight q. hrs. of biological science, eight q. hrs. of physical science, and Education 329 or permission of the instructor and the Dean of the Graduate School.

567. Advanced Laboratory in Elementary Education. (4-8 q. hrs.)

A course designed for the study of educational problems, new trends and developments in areas of curriculum instructional materials, methods, techniques, using observations and demonstrations in the Laboratory School with analysis of instructional media and pertinent published research.

Prerequisite: Eight q. hrs. in graduate courses in elementary education.

568. Guiding Student Teaching. (4 q. hrs.)

Theories, training programs and practices, and research findings in the field of teacher education with a major emphasis upon professional laboratory experiences. Limited to prospective college supervising teachers, coordinators, and co-operating teachers actively engaged in student teaching programs.

569. Seminar in Elementary Science Education. (4 q. hrs.)

An analysis of problems and trends in elementary and junior high science education. Student selection of problems with approval of the instructor.

Prerequisite: Education 566 or permission of the instructor.

570. Psycho-Social Development in Childhood. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

571. Psycho-Social Development of the Adolescent and Young Adult. (4 q. hrs.)

A discussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen quarter hours of education and psychology.

572. Measurement Applied to Guidance. (4 q. hrs.)

A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs.

Prerequisite: Sixteen quarter hours of education and psychology.

573. Play Therapy. (4 q. hrs.)

The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment.

Prerequisite: Education 574 and 593.

574. Personality Dynamics. (4 q. hrs.)

A study of the nature of personality and of various theories of personality with attention given to techniques of personality evaluation.

Prerequisite: Sixteen quarter hours of education and psychology.

576. Student Personnel Work in Higher Education. (4 q. hrs.)

A study of the backgrounds of personnel functions in higher education including specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590.

578. Theories of Aptitudes and Abilities. (4 q. hrs.)

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department.

579. Individual Study in Education. (2 or 4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 590. Permission of the department.

580 (480). School Organization and Administration. (4 q. hrs.)

Educational administration in social and historical perspective; authentication and application of principles of administration.

Prerequisite: Twelve quarter hours in education and psychology.

581. School Supervision—A Group Process. (4 q. hrs.)

Origin and development of the supervisory function. The roles of teachers, supervisors, and administrators in the practical application of theories of supervision.

Prerequisite: Education 550.

583. Administration and Supervision of the Elementary School. (4 q. hrs.)

Develops, for the student planning to enter a career in elementary school administration or supervision, an understanding of the interrelationship of pupils, staff and patrons. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisite: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

584. Administration and Supervision of the Secondary School. (4 q. hrs.)

Develops, for the student planning to enter a career in secondary school administration, an understanding of the role of the principal of the secondary school. Provides an opportunity to experience the decision-making role of the principal through the use of simulated materials.

Prerequisite: Admission to candidacy for the degree, M.S. in Ed., or enrollment in the Ed.S. Program.

585. School Plant Planning. (4 q. hrs.)

Concepts and procedures for relating proposed school plants to the instructional program and community resources. Site selection, financing, legal requirements and the administration of the building program.

Prerequisite: Education 580 or equivalent.

586. School Finance. (4 q. hrs.)

A study of the legal basis for the support of public school, school revenues, and the expenditures of school funds, and an introduction to the concepts which underlie the accounting required for such funds.

Prerequisite: Education 580 or equivalent.

587. Personnel Administration: Teacher-Administrator Relationships. (4 q. hrs.)

Principles and practices of personnel administration in educational institutions.

Prerequisite: Education 580 or its equivalent.

588. School Business Administration. (4 q. hrs.)

A study of the principles of financial management as they relate to the administration of funds in the operation of public education at the local level.

Prerequisite: Education 586 or equivalent.

589 (489). Semina. in Audio-Visual Education. (4 q. hrs.)

Special study on problems of production, administration and utilization of audio-visual materials in schools.

Prerequisite: Education 487, Education 488 or equivalent.

590. Current Practices and Problems in Counseling. (4 q. hrs.)

A course in theory and practices of counseling with emphasis upon the duties of the school counselor.

Prerequisite: Education 490.

591. Organization and Administration of Guidance and Personnel Services. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, public relations, integrations of guidance services and curriculum.

Prerequisite: Education 490.

592. Occupational, Educational, Personal, and Social Information. (4 q. hrs.)

A study of sources, evaluation, and use of occupational, educational, personal, and social information. Employment conditions, job requirements and training facilities.

Prerequisite: Education 490.

593. Counseling Practicum. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest.

Prerequisite: Education 590, 592.

594. Principles and Techniques of Group Guidance. (4 q. hrs.)

A study of the principles and their application in the area of group guidance including techniques of group discussion, sociometrics, and role-playing.

Prerequisite: Education 590.

595. Thesis. (4 q. hrs.)**596. The Junior College Movement.** (4 q. hrs.)

The junior college in the United States with attention to problems of philosophy, curriculum, and operation of junior colleges in Illinois.

Prerequisite: Sixteen quarter hours of education and psychology or permission of the instructor.

597. Seminar in Guidance. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590 and 592.

598. Practicum in Student Personnel Work in Higher Education. (4 or 8 q. hrs.)

Supervised practice in various functions of student personnel work according to the student's background and preferences. Experience will be accompanied by seminar discussions and reports.

Prerequisite: Education 576.

600. Problems in School Administration. (4 q. hrs.)

An advanced seminar in problems of significance to educational administration.

Prerequisite: At least twelve quarter hours in administration and supervision plus completion of Group I courses.

601, 602. The Field Experience in Administration. (4 q. hrs. for each course.)

The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervising administrator. Evaluation and supervision is the responsibility of the advisor.

Prerequisite: Admission to candidacy for the degree Ed.S. and approval of the department.

603. Seminar: Theory and Research in Educational Administration. (4 q. hrs.)

Presents the development of theories of administration in general and theories of educational administration in particular. A scientific and logical study of administrative performance and leadership behavior.

Prerequisites: Education 560 and Education 580 or equivalent plus the consent of the instructor.

604. Seminar: Interdisciplinary Approach to Educational Administration. (4 q. hrs.)

Examines the contributions of the Behavioral Science and the Humanities to the study and practice of Educational Administration. Provides an opportunity to integrate material derived from related area courses.

Prerequisites: Admission to Ed.S. Program and completion of at least 12 quarter hours in related academic disciplines. Permission of the instructor.

609. Administration in Higher Education. (4 q. hrs.)

A study of the scope, nature, and function of administration in higher education.

Prerequisites: Equipment of the master's degree and/or permission of the department.

690. Field Study in Guidance. (Internship.) (4-8 q. hrs.)

Supervised experience in all services normally considered a part of the guidance program.

Prerequisite: Education 593 and approval of the department.

SCHOOL OF BUSINESS**ACCOUNTING****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****453. Accounting Systems.** (4 q. hrs.)

An introduction to basic concepts and standards of accounting system design. The methodology of system design and installation, including the adaptation of accounting devices and equipment. Human factors and problems in systems work and application of scientific methods to systems problems.

Prerequisite: Accounting 360 or equivalent.

454. Budget Planning and Control. (4 q. hrs.)

Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Application of concepts and techniques to a comprehensive budget program. Performance reports and analysis as a tool for communication. Budget planning and control in non-profit institutions.

Prerequisite: Accounting 232 or permission of the Head of the Department of Accounting.

461. Federal Income Tax Accounting. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting under the latest amendments to the Internal Revenue Code. Basic discussion of theory and broad outlines of federal income taxation for individuals. Preparation of individual returns.

Prerequisite: Accounting 232.

462. Advanced Cost Accounting. (4 q. hrs.)

Uses of cost information for decision making.

Prerequisite: Accounting 360 or permission of the instructor.

464. Auditing Theory and Practice. (4 q. hrs.)

The examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing standards and procedures.

Prerequisite: Accounting 354, 355, and permission of the instructor.

466. Advanced Federal Income Tax Problems and Research. (4 q. hrs.)

Emphasis on partnership, corporation, fiduciary tax problems. Consideration given to gift, estate, inheritance taxes. Corporate tax case research and report preparation.

Prerequisite: Accounting 461.

467 (447). C.P.A. Problems I. (4 q. hrs.)

Application of accounting principles to problems of a professional level. Analysis and study of representative problems from C.P.A. examinations.

Prerequisite: Accounting 356.

468 (448). C.P.A. Problems II. (4 q. hrs.)

A continuation of Accounting 467.

Prerequisite: Accounting 356.

469 (444). Advanced Auditing Theory and Practice. (4 q. hrs.)

Theory and application of advanced techniques, special reports, ethics, legal responsibility, and their relation to the auditing standards.

Prerequisite: Accounting 464.

498. Independent Study. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature in accounting in cooperation with the department head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average and permission of the Head of the Department of Accounting.

BUSINESS EDUCATION AND SECRETARIAL STUDIES**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****453. Office Management.** (4 q. hrs.)

Duties and responsibilities of the office manager: selection, training, pay and promotion of office employees; controlling office expense; flow of work; purchase and use of office equipment; physical factors; report writing.

492. Organization and Operation of Vocational Business Education Programs. (4 q. hrs.)

Deals with organization and operation of vocational office and distributive education programs under the provisions of the Vocational Education Act of 1963. Qualifies for vocational certification by the State Office for Vocational and Technical Education.

Prerequisite: Permission of Head of the Department of Business Education.

493. Teaching Techniques in Vocational Business Education. (4 q. hrs.)

Specific techniques of counseling, teaching, and supervision as required in teaching classwork and supervising classroom vocational projects and part-time work experience. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of Head of the Department of Business Education.

494. Coordination Techniques in Vocational Business Education. (4 q. hrs.)

Study of the duties and responsibilities of the Office Occupations and Distributive Education Coordinator, including establishment of training programs, supervision of trainees on the job, development of individual training programs, establishing working relationships between school, business, and

home. Qualifies for vocational certification under the Vocational Education Act of 1963.

Prerequisite: Permission of the Head of the Department of Business Education.

495 (490). Internship in Vocational Business Education. (4 q. hrs.)

Employment experience appropriate to qualify for certification by the State Office for Vocational and Technical Education under the provisions of the Vocational Education Act of 1963. Individuals are expected to secure employment for a minimum of 180 hours during the quarter in a firm approved by the instructor. A training memorandum and approval prior to enrollment is required.

Prerequisite: Permission of the Head of the Department of Business Education and acceptance of the student by a business firm on the basis of the student's application.

498. Independent Study. (4 q. hrs.)

The student will be assigned material from literature of his major field selected in cooperation with the instructor. A written formal report based on these readings is required. Those seeking certification as in-school vocational teachers may elect an approved research project as specified under one of the State of Illinois options for occupational experience requirements.

Prerequisite: Senior or graduate standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Business Education.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Theoretical Issues in Accounting. (4 q. hrs.)

An analysis of accounting concepts, viewed in an ideal framework.

513. Contemporary Issues in Marketing. (4 q. hrs.)

Current issues involved in the delivery of a standard of living. Reading and reporting on the literature of the field will be expected.

516. Contemporary Issues in Management. (4 q. hrs.)

An investigation of the contemporary issues in management. Current problems in the various areas of management and a study of new management techniques.

519. Foundations of American Business. (4 q. hrs.)

The historical development of American business and industry. The evolution of business practices and principles.

520. Practicum in Data Processing. (4 q. hrs.)

The nature and function of modern, high speed information handling equipment. Includes unit record and electronic computers. Problems on

the equipment, with special emphasis on the development of teaching materials.

Not open to students with credit in Management 330 or 331.

570 (544). Foundations in Business Education. (4 q. hrs.)

The evolution of the business curriculum; large and small high schools. Philosophies and objectives of business education are appraised in terms of business occupational requirements.

572 (545). Problems in Business Education. (4 q. hrs.)

Current business education problems, such as supervision, administration, curriculum, equipment, standards, viewpoints of national leaders; problems growing out of the particular needs and interests of the students.

573 (543). Measurement and Evaluation in Business Education. (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

574. Improvement of Instruction in Bookkeeping and the General Business Subjects. (4 q. hrs.)

An examination of methods and techniques in the teaching of bookkeeping, record keeping, and general business courses. Development of materials for use in teaching these subjects. Contributions of research and needed research are considered.

575. Improvement of Instruction in Office Procedures and Data Processing. (4 q. hrs.)

An examination of methods and techniques in teaching office procedures and data processing. Equipment and instructional materials are examined and evaluated. Research material is evaluated.

576. Improvement of Instruction in Shorthand and Secretarial Skills. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching shorthand and secretarial skill courses. The contributions of research, approaches to needed research, and research methods. Examination of modern instructional media.

577. Touch Shorthand in the Secretarial Studies Curriculum. (4 q. hrs.)

Analysis of touch shorthand in the curriculum, specific teaching techniques, initial mastery of the entire touch shorthand theory, and development of basic writing speeds at the keyboard.

Prerequisite: Basic ability in a system of manual shorthand.

578. Improvement of Instruction in Typewriting and Office Practice. (4 q. hrs.)

To acquaint business teachers with current problems and methods in teaching typewriter-related skills and activities. The contributions of research, and research methods. Examination of modern instructional media.

595. Thesis. (4 q. hrs.)

Study and investigation in business education.

MANAGEMENT

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

458. Case Problems in Business Law. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The solution of case problems as applied to the various topics in the field of business law.

Prerequisite: Management 347 or the equivalent.

483. Current Problems in Finance. (4 q. hrs.)

A survey of current literature in finance with a seminar approach in discussing present problems and developments.

Prerequisite: Management 371 and 372.

484. Commercial Banking. (4 q. hrs.)

The organization and management of commercial banks, functions, departments, personnel, policies. The contribution of the modern commercial bank to the community.

Prerequisite: Accounting 230, Economics 255.

498. Independent Study. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of management selected in cooperation with the department head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Management.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. The Corporation in Society. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

Credit applicable only to the Group III requirements for the degree M.S. in Ed.

MARKETING

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

476. Traffic Management. (4 q. hrs.)

Transportation facilities and their historical development; comparison of alternative services; transport costs, rates and routes; shipping documents.

The scope of traffic management; organization and operation of traffic departments.

Prerequisite: Marketing 247 and Management 251.

486. Marketing Research. (4 q. hrs.)

A basic course. Topics covered are: nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report, follow-up and evaluation of research process. Problems.

Prerequisite: Marketing 247.

487. Market Management Problems. (4 q. hrs.)

Marketing problems encountered by businesses that find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis on the case method in problem analysis.

Prerequisite: Accounting 232, Marketing 247, and Management 251.

498. Independent Study. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of marketing selected in cooperation with the department head. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the Head of the Department of Marketing.

MASTER OF BUSINESS ADMINISTRATION

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

530. Quantitative Analysis. (4 q. hrs.)

Designed to provide students with skills in statistics and other quantitative techniques necessary for advanced work in functional areas of business administration.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

531. Communication Analysis. (4 q. hrs.)

Analysis of the functions, planning, psychology, and organization of selected types of written and oral business communications (with emphasis on those which are analytical and research-oriented). Communication is treated from the administrator's viewpoint.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

532. Management Information Systems. (4 q. hrs.)

The course will deal with the accumulation, processing, analysis, and utilization of data pertinent to the operation of a business firm.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

533. Production Management. (4 q. hrs.)

An examination of operating problems from the standpoint of the production executive.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

534. Foundations of Business Enterprise. (4 q. hrs.)

The historical development of business enterprises—the social and economic role of the executive. The evolution of business organizations and practice and their relationship to society.

Prerequisite: Enrollment in the MBA program or the approval of the Director of Graduate Study in Business.

560. Managerial Accounting. (4 q. hrs.)

Accounting as viewed by the user rather than the supplier of financial data.

Prerequisite: Enrollment in the MBA program.

561. Marketing Management. (4 q. hrs.)

The techniques of management as they are applied to the functional areas of marketing. Both quantitative and behavioral tools are used. This is largely a case problems course interspersed with related readings and lectures.

Prerequisite: Enrollment in the MBA program.

562. Operations Research. (4 q. hrs.)

Principles and methods of operations research from a managerial point of view, emphasizing the formulation of business problems in quantitative terms; topics in linear programming, PERT, inventory models, queuing theory, simulation, and probability theory.

Prerequisite: Enrollment in the MBA program.

563. Manpower Management. (4 q. hrs.)

A comprehensive study of personnel programs and their management in formal organizations. The course will concentrate on research into the operation of personnel management.

Prerequisite: Enrollment in the MBA program.

564. Financial Management. (4 q. hrs.)

A financial approach to business management; the sources and uses of funds; an introduction to financial management. Lectures, cases, and current readings in the field of business finance.

Prerequisite: Enrollment in the MBA program.

580. Seminar in Accounting Theory. (4 q. hrs.)

An analysis of the techniques, origin, development, and adequacy of basic theoretical concepts underlying the practice of accounting.

Prerequisite: Enrollment in the MBA program.

581. Seminar in Marketing Theory. (4 q. hrs.)

The development of marketing theory. The progress of the discipline of marketing toward becoming a science is examined. Past and present writings of marketing scholars will be studied and reported.

Prerequisite: Enrollment in the MBA program.

582. Seminar in Organization Theory. (4 q. hrs.)

Value systems underlying management thought; organizational processes and issues in organization theory. Elements of the behavioral sciences as they pertain to organization behavior and practice.

Prerequisite: Enrollment in the MBA program.

583. Seminar in Business Finance. (4 q. hrs.)

Analysis of money markets from the investor's point of view. A study of financial institutions and their influence on money markets. Securities markets and other investment media.

Prerequisite: Enrollment in the MBA program.

590. Administrative Policy. (4 q. hrs.)

Top-management functioning. Emphasis is on integration of functions toward the objectives of the organization. Case studies, special reports, and seminar discussions of top management problems.

Prerequisite: Enrollment in the MBA program.

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

HEALTH EDUCATION

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

480. Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (4 q. hrs.)

A course for teachers, administrators, and others interested in the development of alcohol and narcotic education programs. Course centers around the use and abuse of stimulants and depressants.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

501. Current Health Problems. (4 q. hrs.)

An epidemiological investigation of the cause, nature, extent, and trends in programming current health problems, including chronic and degenerative diseases, mental illness; traumatic injury; radiological hazards and contamination; communicable diseases; and nutritional deficiencies.

PHYSICAL EDUCATION FOR MEN

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

470 (522). Organization and Administration of Intramural Athletics. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to both men and women.

471. Practicum in Recreation Leadership. (4 q. hrs.)

A field experience to include assignment to an established community recreation program.

Open to both men and women.

474. Development of Areas and Facilities for Physical Education and Recreation. (4 q. hrs.)

Design and operation of physical education and recreation facilities, both indoor and outdoor, including types, location, layout, and construction standards.

Open to both men and women.

476. Recreation in the Natural Environment. (4 q. hrs.)

An analysis of existing programs of recreation, both commercial and public, conducted in the natural environment with special emphasis on the planning of activities adaptable to the natural setting.

Open to both men and women.

479. Swimming Pool Management and Operation. (4 q. hrs.)

A course to orient the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

500. Introduction to Graduate Study in Physical Education. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Open to both men and women.

520 (495). Course of Study Development in Physical Education.

(4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to both men and women.

521 (475). Administration of Interschool Athletics. (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

523. Physiology of Exercise. (4 q. hrs.)

A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory and muscular systems.

Prerequisite: Zoology 348. Open to both men and women.

524. Physical Education for the Atypical Individual. (4 q. hrs.)

Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.

Open to both men and women.

528. The Organization and Administration of Community Recreation.

(4 q. hrs.)

Recent trends in organizing and administering of recreation on federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures.

Open to both men and women.

530. Advanced Administration of Physical Education in Schools.

(4 q. hrs.)

Legal responsibilities and liability; construction and maintenance of equipment and facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.

Open to both men and women.

550. Sports and Physical Education in American Society. (4 q. hrs.)

A course designed for the non-major of physical education to give the student an appreciation of the contributions of physical education and athletics in our American culture, and the role of physical education in early civilization.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

570. Experimental Laboratory Research in Physical Education.

(4 q. hrs.)

Methods and techniques in research in physical education and related fields.

Open to both men and women.

571. Sociological Bases of Sport in America. (4 q. hrs.)

The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.

Open to both men and women.

572. Evaluation of Physical Education Philosophies in Foreign Countries.

(4 q. hrs.)

A comparative study of philosophies of physical education in selected European, Asian and Latin American countries.

Open to both men and women.

573. The Nature and Bases of Motor Behavior. (4 q. hrs.)

A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.

Open to both men and women.

580. Analytical Readings in Health, Physical Education and Recreation.

(4 q. hrs.)

Assigned readings in professional publications for education and health and physical education articles. Written and oral analysis of implications obtained in the readings will be made.

Open to both men and women.

590, 591, 592. Independent Study. (4 q. hrs. for each course.)

Individual pursuit of study selected by the student and directed by a member of the graduate staff. The study selected and credit hours to be earned are determined by the student's advisor.

Open to both men and women.

595. Thesis. (4 q. hrs.)**PHYSICAL EDUCATION FOR WOMEN****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS****450. Evaluation of Physical Education Activities.** (4 q. hrs.)

Selection and administration of physical measurements and written tests commonly used in physical education.

Open to both men and women.

457. Analysis of Human Motion. (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Includes

specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to both men and women.

473 (513). Planning the Recreation Program. (4 q. hrs.)

Exploration of philosophical viewpoints underlying a recreational program; criteria for evaluating the recreational potential of a community; formulation of plans for meeting various recreational needs.

Open to both men and women.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

510. Supervision of Physical Education. (4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Open to both men and women.

512. Application of Psychology to Physical Education. (4 q. hrs.)

A study of psychological principles, laws of learning, and their application to physical education.

Open to both men and women.

514. (459). Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (4 q. hrs.)

Materials, organization and program of physical education in the elementary and junior high school. Integration of physical education with general education.

Prerequisite: Physical Education 252 or equivalent. Open to both men and women.

515. Physical Education—An Aesthetic Approach. (4 q. hrs.)

Study of physical education in relation to certain of the arts and its philosophical and historical evolution and development as related to various cultures.

Open to both men and women.

519. Growth and Development Through Physical Education. (4 q. hrs.)

Survey of the physical, social, emotional, and intellectual growth and development of children and adolescents as these relate to curriculum planning for physical education.

Open to both men and women.

551. Historical Development of Dance. (4 q. hrs.)

A study of the relationship of dance to the other arts. Emphasis is

given to the socio-cultural implications of the arts throughout the ages of mankind and the specific role of dance in this development.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

560. Advanced Theory and Analysis of Team Sports. (4 q. hrs.)

Study of techniques, organization, and team strategy of selected team sports as they relate to the learner and the physical education program.

Prerequisite: Proficiency in the selected sports.

561. Advanced Theory and Analysis of Individual Sports. (4 q. hrs.)

Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program.

Prerequisite: Proficiency in the selected sports.

562. Problems in the Administration of Girls' Physical Education. (4 q. hrs.)

Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied.

563. Philosophy of Physical Education. (4 q. hrs.)

Study of principles of physical education with application to current problems in the field.

Open to both men and women.

595. Thesis. (4 q. hrs.)

SCHOOL OF HOME ECONOMICS

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

502. Independent Study in Home Economics. (2-4 q. hrs.)

To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered.

542. Workshop in Curriculum Development. (2-4 q. hrs.)

Theoretical background and experimental approaches to curriculum improvement.

560. Supervision in Home Economics. (4 q. hrs.)

The role of the supervising teacher; problems of orientation, guidance and evaluation.

564. Professional Issues and Developments. (4 q. hrs.)

A seminar dealing with the current and emerging problems in the field of home economics and with those changes in society which affect education for family living.

570. Evaluation in Home Economics. (4 q. hrs.)

Development and critical evaluation of instruments designed to measure pupil growth.

595. Thesis. (4 q. hrs.)

Individual direction of research thesis writing.

SCHOOL OF INDUSTRIAL ARTS AND TECHNOLOGY

INDUSTRIAL ARTS

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

451. Organization of Subject Matter. (4 q. hrs.)

A continuation of Industrial Arts 340 involving advanced work in the preparation of instructional material with a view of providing for the conceptual approach in teaching. Graduate student must write a course paper.

Prerequisite: Industrial Arts 340.

452. Recreational Crafts. (4 q. hrs.)

A study in depth of contemporary crafts involving technical information and laboratory experiences. Students taking this course for graduate credit will conduct a substantial investigation. Two lectures and four hours of laboratory per week.

453. Applied Descriptive Geometry. (4 q. hrs.)

The application of engineering drafting principles to the solution of advanced spatial problems. Advanced spatial projection theories, spatial relationships and geometry of points, lines and planes; parallel, angular and perpendicular relationships; and problem solution by rotation.

Prerequisite: Industrial Arts 101.

461. Photo-Conversion Procedures. (4 q. hrs.)

Black-and-white and color copy preparation, photo-conversion, film processing. Use of exposure computer, transmission densitometer. Photo image assembly, step-and-repeat systems. Offset stripping for black-and-white and color. Lithographic materials, supplies, equipment. Four classroom periods per week, opportunity laboratory.

Prerequisite: Industrial Arts 212 or permission of instructor.

491. Occupational Analysis. (4 q. hrs.)

A study of the procedures and techniques involved in analyzing occupations into their specific components or elements. The development of course instructional material is included.

Prerequisite: Senior standing.

492 (561). Course Making in Industrial Arts. (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

Prerequisite: Senior standing.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

550. Graphic Arts in a Changing Culture. (4 q. hrs.)

Offered as a cultural course in the graduate program. Develops an appreciation of the importance of graphic arts through discussion, laboratory experiences, field trips and appropriate audio-visual presentations.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

565. History and Philosophy of Industrial Education. (4 q. hrs.)**572. Innovations in Industrial Education.** (4 q. hrs.)

Charting the changing directions of programs in industrial education, today!

575. Professional Research in Industrial Arts. (4 q. hrs.)

Designed for development of instructional aids, devices or problems for teaching industrial education. The plan for research to be undertaken must be approved by the instructor and head of the department. Conference method.

576. Professional Research. Arranged. (4 q. hrs.)

Designed for the development of instructional aids, devices, or problems for teaching occupational education. The plan for research must be approved by the instructor and department head. Conference method.

Prerequisite: Admission to candidacy.

580. Facility Planning in Occupational Education. (4 q. hrs.)**595. Thesis.** (4 q. hrs.)

INDUSTRIAL TECHNOLOGY

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

460. Physical Metallurgy. (4 q. hrs.)

Mechanical testing, metal structure metallurgical examination, plastic deformation, heat treatment, wear, corrosion, welding, and powder and foundry metallurgy of ferrous and non-ferrous alloys. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Technology 400.

464. Principles of Metal Casting. (4 q. hrs.)

Equipment, materials and processes of the casting industry. Procedures and control of casting production, melting techniques, sand testing, casting design, and casting defect analysis. Two hours of lecture and four hours of laboratory per week.

Prerequisite: Industrial Arts 307 or 308.

SCHOOL OF MUSIC

COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

452 (432). Psychology of Music. (4 q. hrs.)

Analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements of the psychology of music in a teaching situation.

454. Choral Arranging. (4 q. hrs.)

A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations.

Prerequisite: Music 232.

455. Band Arranging. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

459. Stage Band Arranging. (4 q. hrs.)

A course dealing with the basic problems and techniques involved in arranging for a stage band. Projects are prepared and performed.

Prerequisite: Music 232 or equivalent.

460. Marching Band Procedure. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

461 (510). Sixteenth Century Courterpoint. (4 q. hrs.)

A basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232.

462 (511). Eighteenth Century Counterpoint. (4 q. hrs.)

A study of contrapuntal harmonic practices, including inventions, canon, fugue, and forms based upon the chorale.

Prerequisite: Music 232.

463 (526). Administration of Instrumental Organizations. (2 q. hrs.)

This course aims to prepare the student for administrative problems

which apply particularly to the instrumental teacher and which lie beyond the area of pedagogy.

464. Church Music. (4 q. hrs.)

A study of performance problems in the basic sacred works along with a survey of the liturgy and music from early times through the twentieth century.

465. Techniques for Developing and Training Stage and Dance Bands in the High School. (2 q. hrs.)

A course dealing with basic problems in organization development, and training of the high school stage and dance band.

Prerequisite: Music 200, 204, or permission of instructor.

466 (531). Vocal Pedagogy. (4 q. hrs.)

Writings of recognized authorities on the subject of the teaching of singing, coupled with observations in the Vocal Studios.

Prerequisite: A minimum of 6 quarters of instruction in singing (or the equivalent) and permission of the Vocal Staff.

467. English and Italian Song Literature. (2 q. hrs.)

The study of the English and Italian song literature from the seventeenth century to the present. The works under study will be translated, analyzed and performed. The course is designed for the advanced vocal option but may be elected by other qualified students.

Prerequisite: Music 243 or permission of the instructor.

468. German Song Literature. (2 q. hrs.)

The study of the German lied of the eighteenth, nineteenth and twentieth centuries. The works under study will be translated, analyzed and performed. The course is designed for the advance vocal option but may be elected by other qualified students.

Prerequisite: Music 244 or permission of the instructor.

469. French and Spanish Song Literature. (2 q. hrs.)

The study of the French and Spanish song literature of the nineteenth and twentieth centuries. The works under study will be translated, analyzed and performed. The course is designed for the advanced vocal option but may be elected by other qualified students.

Prerequisites: Music 243 and 245 or permission of the instructor.

470 (586). Music in the Classic Era. (4 q. hrs.)

A critical appraisal of selected music by Classical composers, including representative genres, styles and media and emphasizing distinctively Classic stylistic features.

Prerequisites: Music 351, 352, 353.

471 (587). Music in the Romantic Era. (4 q. hrs.)

A critical appraisal of selected music by Romantic composers, including

representative genres, styles, and media emphasizing distinctly Romantic stylistic features.

Prerequisites: Music 351, 352, 353.

472 (372, 373). Opera Workshop. (2 q. hrs.)

The study and performance of opera roles and selected opera scenes. Class participation will involve staging, acting, costuming, and singing. Can be taken only with permission of the instructor. May be taken for credit up to four times by an undergraduate. May be taken for credit twice by a graduate.

474 (532). Symphonic Literature. (4 q. hrs.)

A survey of orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romantics, the National schools, and late European and American developments.

480. Workshop in Music. Summer only. (1 q. hr.)

Concentrated work in literature techniques, pedagogical problems and style of the various media in music. The course may be offered in piano, voice, orchestral or band instruments, and ensemble. The course is one week in duration.

GRADUATE COURSES

(Courses numbered 500-549 inclusive may be taken by a senior whose grade point average is 3.0 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 550 and above are open only to graduate students.)

516. Advanced Conducting and Performance Practices. (4 q. hrs.)

A study of the styles of choral, band, and orchestra literature as they pertain to the problems of the conductor. The student concentrates in the area of his special interest.

Prerequisite: Music 380 or 381.

517. Analytical Techniques. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 447.

520. Teaching Music Theory. (4 q. hrs.)

Principles, techniques, content and materials for teaching music theory courses in the freshman and sophomore years of college.

528. Aesthetics of Music. (4 q. hrs.)

A study of man's search for beauty through musical experience; the meaning and value of beauty in music as realized by creator, performer, and listener throughout various historical periods.

536. Opera and Oratorio. (4 q. hrs.)

A study of selected opera and oratorio literature from Monteverdi to the present day.

540. Keyboard Literature of the Baroque Era. (2 q. hrs.)

A study of the literature of the stringed keyboard instruments from the beginning of this music through 1750.

541. Keyboard Literature of the Classic Era. (2 q. hrs.)

A study of the piano literature by the sons of Bach, Haydn, Mozart, Clementi, and Beethoven.

542. Keyboard Literature of the Romantic Era. (2 q. hrs.)

A study of the piano literature of Schubert, Mendelssohn, Schumann, Chopin, Liszt, and Brahms.

543. Keyboard Literature of the Twentieth Century. (2 q. hrs.)

A study of the piano literature of leading composers in Europe, America, and South America.

545, 546. Independent Study in Music. (1-4 q. hrs. for each course.)

Advanced work on a topic or problem selected by the student. Student must submit an outline of his plan of work to the Director of the School of Music for approval and assignment to an instructor.

551. Music in Contemporary Culture. (4 q. hrs.)

Emphasis is placed upon developing judgments and perception through study of ideas and forces which influence composers, comparative listening, discussion and writing about music.

Credit applicable only to the Group III requirement for the degree M.S. in Ed.

556. Teaching Techniques in Woodwinds. (2 q. hrs.)

An advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

557. Teaching Techniques in Brass and Percussion. (2 q. hrs.)

Practical work in the advanced techniques of the brass and percussion instruments. Materials and methods pertaining to the instrumental program in the public schools are studied.

560. Music in the Elementary School. (4 q. hrs.)

The advanced course in the teaching of music in the elementary school deals with the child with reference to the problems of teaching singing, rhythms, creative expression, listening experiences, and preparation for the instrumental program.

562, 563. Foundations and Principles of Music Education.

(4 q. hrs. for each course.)

Systematic treatment of the total music education program through examination of the historical, philosophical and psychological foundations of music education, and development of principles for all aspects of the operation of the music program.

566. Introduction to Research in Music. (4 q. hrs.)

A study of the scope and characteristics of the areas of music history and literature, composition and theory, performance, and music education, including problems in basic bibliography. Course involves library and research techniques as well as practice in organizing and reporting data.

572, 573. Class Piano Pedagogy and Internship. (4 q. hrs. each course.)

A study of the mechanics and purposes of group piano teaching supplemented by observation and practice teaching in college classes.

Prerequisite: Music 362 or permission of instructor.

578. Performance in Music. (4 q. hrs.)

Analysis and research in preparation of the public recital and the paper which accompanies it.

Open only to candidates in performance concentration.

580. Seminar in the Problems of Music Education. (2-4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

581. Music of the Twentieth Century. (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1900 to the present.

584. Music in the Renaissance Era. (4 q. hrs.)

A critical appraisal of selected music by Renaissance composers, including genres, styles, and media, with particular emphasis on distinctively Renaissance stylistic features.

Prerequisites: 351, 352, and 353.

585. Music in the Baroque Era. (4 q. hrs.)

A critical appraisal of selected music by Baroque composers, including representative genres, styles, and media and emphasizing distinctively Baroque stylistic features.

Prerequisites: Music 351, 352, 353.

588, 589. Seminar in Music History. (4 q. hrs. for each course.)

Intensive study of special topics dealing with the eras of the Middle Ages, Renaissance, and Baroque; Classic, Romantic, and Twentieth Century.

590. History of Music Theory, Greek to 1550. (4 q. hrs.)

An examination of tonal theoretical systems in the western culture from the Greeks to 1550. Included is tuning and temperament, the Greek, ecclesiastical modal, and polyphonic theories through Tinctoris.

591. History of Music Theory, 1550 to Present. (4 q. hrs.)

An examination of tonal theoretical systems in the western culture from 1550 to the present. Included is meantone and equal temperaments.

595. Thesis. (4 q. hrs.)***651. Voice.** (1 or 2 q. hrs.)***652. Flute.** (1 or 2 q. hrs.)***653. Oboe.** (1 or 2 q. hrs.)***654. Clarinet.** (1 or 2 q. hrs.)***655. Bassoon.** (1 or 2 q. hrs.)***656. Saxophone.** (1 or 2 q. hrs.)***657. Trumpet.** (1 or 2 q. hrs.)***658. Cornet.** (1 or 2 q. hrs.)***659. Horn.** (1 or 2 q. hrs.)***660. Trombone.** (1 or 2 q. hrs.)***661. Baritone.** (1 or 2 q. hrs.)***662. Tuba.** (1 or 2 q. hrs.)***663. Percussion.** (1 or 2 q. hrs.)***664. Violin.** (1 or 2 q. hrs.)***665. Viola.** (1 or 2 q. hrs.)***666. Violoncello.** (1 or 2 q. hrs.)***667. String Bass.** (1 or 2 q. hrs.)***668. Piano.** (1 or 2 q. hrs.)***669. Organ.** (1 or 2 q. hrs.)***670. Harpischord.** (1 or 2 q. hrs.)***671. Composition.** (1 or 2 q. hrs.)

* A student shall receive one or two quarter hours of credit depending on the degree program elected, i.e., M.S. in Ed.—1 q. hr. or M.A.—2 q. hrs. The respective courses may be repeated for a total of 4 q. hrs. in the M.S. in Ed. program and for a total of 8 q. hrs. in the M.A. program.

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The date in parentheses shows the year the person joined the staff
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Dean, Student Personnel Services	Rudolph D. Anfinson, Ph.D.	(1940)
Dean, Student Academic Services	Glenn D. Williams, Ph.D.	(1960)
Vice President for Business Services	Harley J. Holt, M.S.	(1963)
Vice President for Development	Martin Schaefer, Ph.D.	(1958)

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GRADUATE FACULTY

The date in parentheses shows the year the person joined the
staff of the University

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 LLOYD COLLINS, Ph.D. (1969).....Associate Professor of Anthropology
 JOSEPH T. CONNELLY, Ph.D. (1958).....Associate Professor of Political Science
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 M. MARISE DAVES, Ed.D. (1955).....Professor of Physical Education
 BERNARD J. DERWORT, Ph.D. (1964).....Professor of Mathematics
 ALPHONSO J. DiPIETRO, Ph.D. (1959).....Professor of Mathematics
 PATRICK J. DOCTER, Ph.D. (1969).....Associate Professor of Zoology
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 LEONARD DURHAM, Ph.D. (1955).....Professor of Zoology
 K. C. EAPEN, Ph.D. (1965).....Associate Professor of English
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 JOHN E. EBINGER, Ph.D. (1963).....Associate Professor of Botany
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 GLADYS W. EKEBERG, Ph.D. (1945).....Professor of English
 E. DUANE ELBERT, Ph.D. (1966).....Assistant Professor of History
 CHARLES A. ELLIOTT, Ed.D. (1945).....Professor of Industrial Arts
 THOMAS ELLIOTT, Ed.D. (1969).....Associate Professor of Business Education
 JERRY W. ELLIS, Ph.D. (1966).....Assistant Professor of Chemistry
 CARL E. EMMERICH, D.Ed. (1962).....Associate Professor of Art
 CLIFFORD H. ERWIN, D.Ed. (1956).....Professor of Industrial Arts
 CLIFFORD L. FAGAN, Ph.D. (1949).....Professor of Marketing
 JOHN R. FAUST, Ph.D. (1966).....Associate Professor of Political Science
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 MELVIN O. FOREMAN, Ph.D. (1946).....Professor of Chemistry
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 CLIFTON N. FOSTER, Ed.D. (1966).....Assistant Professor of Education
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 E. GLENDON GABBARD, Ph.D. (1947).....Professor of Theatre Arts
 DONALD P. GARNER, Ph.D. (1963).....Professor of Speech
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INDEX

Accounting Course Descriptions	89
Administrative Officers	111
Admission	9
Admission to Candidacy, M.B.A.	23
Admission to Candidacy, M.A. and M.S.	22
Admission to Candidacy, M.S. in Ed.	18
Admission to Candidacy, Specialist Degree	25
Adviser	10
Aim, Master of Arts	21
Aim, Master of Business Administration	23
Aim, Master of Science	21
Aim, Master of Science in Education	18
Aim, Specialist in Education	26
Anthropology Course Descriptions	27
Area of Concentration, M. S. in Ed.	20
Art Course Descriptions	28
Assistantships, Graduate	16
Auditing of Courses	11
Basic Courses in Education, M. S. in Ed.	20
Board of Governors of State Colleges and Universities	110
Botany Course Descriptions	30
Buildings and Grounds	5
Business Education Course Descriptions	90
Business, School of, Courses	89
Calendar	3
Classics Course Descriptions	47
College of Letters and Science Course Descriptions	27
Council on Graduate Studies	111
Course Descriptions	27-109
Accounting Course Descriptions	89
Anthropology Course Descriptions	27
Art Course Descriptions	28
Botany Course Descriptions	30
Business Course Descriptions	89
Business Education Course Descriptions	90
Chemistry Course Descriptions	32
Classics Course Descriptions	47
Economics Course Descriptions	35
Education Course Descriptions	79
English Course Descriptions	39
Foreign Language Course Descriptions	42
French Course Descriptions	42
Geography Course Descriptions	47
German Course Descriptions	44
Health Education Course Descriptions	96
History Course Descriptions	50
Home Economics Course Descriptions	101
Industrial Arts Course Descriptions	102
Industrial Technology Course Descriptions	103
Journalism Course Descriptions	56
Latin Course Descriptions	45
Library Science Course Descriptions	57
Management Course Descriptions	93
Marketing Course Descriptions	93
Master of Business Administration Course Descriptions	94
Mathematics Course Descriptions	58
Music Course Descriptions	104
Physical Education for Men Course Descriptions	97

INDEX (Continued)

Physical Education for Women Course Descriptions	99
Physical Science Course Descriptions	62
Physics Course Descriptions	62
Political Science Course Descriptions	65
Psychology Course Descriptions	68
Social Science Course Descriptions	69
Sociology Course Descriptions	69
Spanish Course Descriptions	45
Speech Course Descriptions	72
Speech Pathology & Audiology Course Descriptions	73
Theatre Arts Course Descriptions	75
Zoology Course Descriptions	76
Credit	11
Degree Requirements	18
Degrees	9
Description of Courses	27-109
Economics Course Descriptions	35
Education Course Descriptions	79
English Course Descriptions	39
Examination, The, for M.A.	23
Examination, The, for M.S.	23
Examination, The, for M.S. in Ed.	21
Faculty for Professional Education Course Descriptions	79
Fees	12
Fellowships	16
Fields, Master of Arts	21
Fields, Master of Science	21
Fields, Master of Science in Education	18
Fields, Specialist Degree	25
Fields, Specialist in Education	26
Final Examination, Specialist in Education	26
Foreign Language Course Descriptions	42
French Course Descriptions	42
General Information	9
Geography Course Descriptions	47
German Course Descriptions	44
Grades	11
Graduate Assistantships	16
Graduate Courses in the Senior Year	10
Graduate Faculty	111
Graduation Honors	24
Graduation Requirements for the Masters' Degrees	24
Groups I, II, III, Courses for M. S. in Ed.	20
Health Education Course Descriptions	96
History Course Descriptions	50
History of the University	5
Home Economics Course Descriptions	101
Honors, Graduation	24
Housing Accommodations	16
Industrial Arts Course Descriptions	102
Industrial Technology Course Descriptions	103
Journalism Course Descriptions	56
Language Requirement for M.A. and M.S.	23
Latin Course Descriptions	45
Library	16
Library Science Course Descriptions	57
Location	5
Major and Minor for M.A. and M.S.	22
Management Course Descriptions	93
Marketing Course Descriptions	93
Master of Arts Degree	21

INDEX (Continued)

Admission to Candidacy	22
Aim	21
Examination, The	23
Fields	21
Language Requirement	23
Major and Minor	22
Paper, The	23
Program of Studies	22
Master of Business Administration Course Descriptions	94
Master of Business Administration Degree	23
Admission to Candidacy	23
Aim	23
Master of Science Degree	21
Admission to Candidacy	22
Aim	21
Examination, The	23
Fields	21
Language Requirement	23
Major and Minor	22
Paper, The	23
Program of Studies	22
Master of Science in Education Degree	18
Admission to Candidacy	18
Aim	18
Area of Concentration	20
Basic Courses in Education	20
Examination, The	21
Fields	18
Groups I, II, III	20
Paper, The	20
Program of Studies	19
Mathematics Course Descriptions	58
Maximum Load	10
Music Course Descriptions	104
Non-Discrimination, Policy on	9
Numbering of Courses	27
Official Receipts	14
Paper, The, for M.A. and M.S.	23
Paper, The, for M. S. in Ed.	20
Physical Education for Men Course Descriptions	97
Physical Education for Women Course Descriptions	99
Physical Science Course Descriptions	62
Physics Course Descriptions	62
Placement Office	15
Policy on Non-Discrimination	9
Political Science Course Descriptions	65
Program of Studies for M.A. and M.S.	22
Program of Studies for M. S. in Ed.	19
Program of Studies for Specialist in Education	26
Psychology Course Descriptions	68
Rating	5
Refunds	15
Residence Requirement and Transfer Credit	10
Scholarships	15
School of Business Course Descriptions	89
School of Health, Physical Education, and Recreation Course Descriptions	96
School of Home Economics Course Descriptions	101
School of Industrial Arts and Technology Course Descriptions	102
School of Music Course Descriptions	104
Senior Year, Graduate Courses in	10
Social Science Course Descriptions	69

INDEX (Continued)

Sociology Course Descriptions	69
Spanish Course Descriptions	45
Specialist Degree	25
Admission to Candidacy	25
Field	25
Specialist in Education Degree	26
Aim	26
Fields	26
Final Examination	26
Program of Studies	26
Speech Course Descriptions	72
Speech Pathology and Audiology Course Descriptions	73
Textbook Library	17
Theatre Arts Course Descriptions	75
Time Limit	11
Transfer Credit	10
University Union	17
Withdrawal from a Course or from the University	12
Zoology Course Descriptions	76

